XR-7170/7171/7172

SERVICE MANUAL

AEP Model
XR-7170/7171
E Model
XR-7170
Germany Model
XR-7172

Photo: XR-7170

Model Name Using Similar Mechanism	NEW
Tape Transport Mechanism Type	MG-55L2-31

SPECIFICATIONS

Power amplifier section

Outputs: Speaker outputs (sure seal connectors)
Speaker impedance: 3.2 – 8 ohms
Maximum power output: 20 W × 4 (at 4 ohms)*
*Measured at 14.4 V

Cassette player section

Tape track: 4-track 2-channel stereo
Frequency response: 30 – 18,000 Hz

Signal-to-noise ratio

Cassette type	Dolby B	Dolby C	Dolby off
TYPE II, IV	66 dB	76 dB	58 dB
TYPE I	63 dB	73 dB	55 dB

Wow and flutter: 0.1% (WRMS)

Tuner section

FM

Tuning range: 87.5 – 108.0 MHz
Antenna terminal: External antenna connector
Intermediate frequency: 10.7 MHz
Usable sensitivity: 12 dBf (75 ohms)
Selectivity: 75 dB at 400 kHz
Signal-to-noise ratio: 65 dB (stereo), 70 dB (mono)
Harmonic distortion at 1 kHz: 0.5% (stereo), 0.3% (mono)
Separation: 35 dB at 1 kHz
Frequency response: 30 – 15,000 Hz
Capture ratio: 2 dB

AM (XR-7170/7172)

Tuning range: European and other countries
531 – 1,602 kHz
(at 9 kHz step)
Central and South American countries (XR-7170)
530 – 1,620 kHz
(at 10 kHz step)
AM tuning interval
9 kHz/10 kHz switchable
Antenna terminal: External antenna connector
Intermediate frequency: 450 kHz
Sensitivity: 35μV

– Continued on next page –

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
"DOLBY" and the double-D symbol DD are trademarks of Dolby Laboratories Licensing Corporation.

使用時は添付資料も参照のこと
Refer to the accessories documents

FM/AM CASSETTE CAR STEREO

SONY®

MW/LW (XR-7171)

Tuning range	MW: 531 – 1,602 kHz LW: 153 – 281 kHz
Antenna terminal	External antenna connector
Intermediate frequency	450 kHz
Sensitivity	MW: 35μV LW: 70μV

General

Output lead	Power antenna relay control lead Power amplifier control lead
Tone controls	Bass ±10 dB at 100 Hz Treble ±10 dB at 10 kHz
Loudness	+10 dB at 100 Hz +6 dB at 10 kHz
Power requirements	12 V DC car battery (negative ground)
Dimensions (without bracket)	Approx. 178 × 50 × 153 mm (w/h/d), not incl. projecting parts and controls
Mounting dimensions	Approx. 182 × 53 × 145 mm (w/h/d), not incl. projecting parts and contnrols
Weight	Approx. 1.9 kg
Accessories supplied	Mounting hardware (1 set)

Design and specifications subject to change without notice.

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Note for Lithium Battery

CAUTION

Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the equipment manufacturer. Discard used batteries according to manufacturer's instructions.

ADVARSEL !
Lithiumbatteri – Eksplosionsfare ved fejlagtig håndtering.
Udskiftning må kun ske med batteri
af samme fabrikat og type.
Lever det brugte batteri tilbage til leverandøren.

ADVARSEL

Lithiumbatteri – Eksplosjonsfare.
Ved utskifting benyttes kun batteri som
anbefalt av apparatfabrikanten.
Brukt batteri returneres apparatleverandøren.

VARNING

Explosionsfara vid felaktigt batteribyte.
Använd samma batterityp eller en ekvivalent
typ som rekommenderas av apparattillverkaren.
Kassera använt batteri enligt fabrikantens
instruktion.

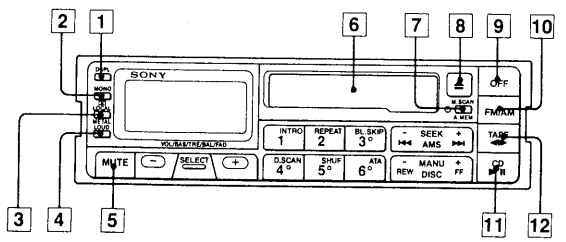
VAROITUS

Paristo voi räjähtää, jos se on virheellisesti asennettu.
Vaihda paristo ainoastaan laitevalmistajan suosittelemaan
tyyppiin. Hävitä käytetty paristo valmistajan ohjeiden
mukaisesti.

This section is extracted from instruction manual. (XR-7170)

SECTION 1
GENERAL

Location and Function of Controls



Refer to the page in ● for details.

1 **DSPL (display) button** ⓫ ⓭ ㉑

During radio reception	During tape playback
2 **MONO (monaural) button** ⓯	▯▯ **button** ⓫
3 **LOCAL button** ⓰	**METAL (metal/CrO_2) button** ⓫

4 **LOUD (loudness) button**
Press to reinforce bass and treble especially when listening at low volume. To disengage the button, press it again.

5 **MUTE button**
Press to momentaly mute the sound. Press again to restore the same level as before.

6 **Cassette insertion door**

7 **M.SCAN (memory scan)/A.MEM (automatic memory) button** ⓲ ⓱

8 **⏏ (eject) button**

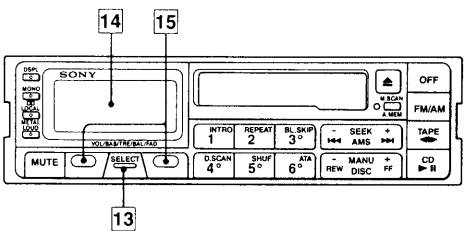
9 **OFF (power off) button**

10 **FM/AM (radio on/band select) button** ⓮

11 **CD ► II (disc play/pause) button** ⓴

12 **TAPE ◄II► (playback/transport direction change) button** ⓾

Location and Function of Controls

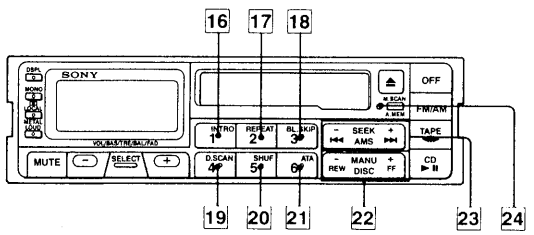


13 **SELECT (control mode select) button**
Press to select the desired mode, BAS (bass), TRE (treble), BAL (balance), FAD (fader), or VOL (volume).

14 **Display window**

15 **(volume/bass/treble/balance/fader control) button**
⊖⊕ button normally functions as the volume control. Adjust the level within three seconds after selecting the desired control mode. Otherwise, the mode goes back to the volume control mode.

Display window	Control mode	Press ⊖	Press ⊕
BAS	Bass control	For less bass	For more bass
TRE	Treble control	For less treble	For more treble
BAL	Balance control	To decrease the right-speaker volume	To decrease the left-speaker volume
FAD	Fader control	To decrease the rear-speaker volume	To decrease the front-speaker volume
VOL	Volume control	For less volume	For more volume



During tape playback	During disc play	During radio reception
16 **INTRO button** ⓫ ㉒		
17 **REPEAT button** ⓫ ㉒		
18 **BL. SKIP (blank skip) button** ⓫	—	
19 —	**D. SCAN (disc scan) button** ㉒	**Preset number buttons** ⓲
20 —	**SHUF (shuffle) button** ㉒	
21 **ATA (automatic tuner activation) button** ⓭ ㉒		
22 **FF/REW (fast forward/ rewind) button** ⓾	**DISC (disc change/manual search) button** ⓴ ㉑	**MANU (manual tuning) button** ⓰
23 **AMS* button** ⓬ ㉑		**SEEK (automatic tuning) button** ⓭

24 **Reset button**
Press this button when you use this unit for the first time and when you have changed the car battery, or when other buttons do not function. The reset button is effective only when the unit is mounted in the bracket.

* Automatic Music Sensor

Note
The mute function, intro play, repeat play, disc scan, and shuffle play (1 and 2) will be cancelled when you press the OFF button or when you keep the ignition key set to the off position for more than eight seconds. The blank skip function and the automatic tuner activation will be maintained until you press each button again.

To change illumination colors
Press 1 while pressing the SELECT. Press these buttons again to restore the same color as before.

To mute a beep sound
Press 6 while pressing the SELECT.
To obtain the beep sound again, press these buttons again.

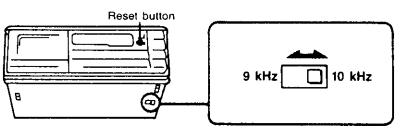
Note on AM Tuning Interval

The interval is factory-set to 9 kHz.
If, however, AM frequency allocation might be different from that in the area this car stereo is used, change the AM tuning interval.

9 kHz area	European, Asian, African and Oceanian Countries
10 kHz area	North, Central and South America

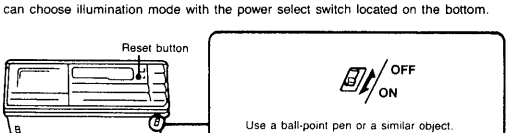
To change the AM tuning interval

1 Remove the main unit from the bracket.
2 Set the AM tuning interval selector at the bottom of the unit to the proper position. Use a ball-point pen or a similar object.
3 Install the main unit to the bracket.
4 Press the reset button after setting the ignition key to the accessory position.



Notes on the Power Select Switch

You can choose illumination mode with the power select switch located on the bottom.



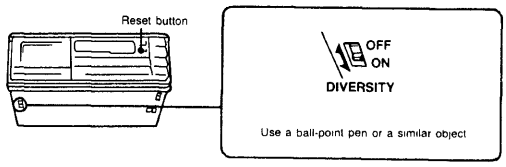
When you set the ignition key to the accessory position

Power select switch	ON	OFF
Illuminate where?	OFF, TAPE, FM/AM, CD, ⏏ buttons and the cassette insertion door	No illumination

- When you activate the unit, all parts of the panel illuminate, regardless of the position of the switch.
- If your car has no accessory position, we recommend you to set the switch to the OFF position.
- Be sure to press the reset button after changing the position of the switch.

When a Diversity Antenna is Used —DIVERSITY switch

This unit can be connected with diversity antennas If you use this unit with the diversity antennas, set the DIVERSITY switch located at the bottom of the unit to the ON position to activate the diversity system.



When you connect only one antenna
If you do not use the diversity system and connect only one antenna, connect the antenna to the MAIN connector of this unit and set the DIVERSITY switch to the OFF position

Note
Be sure to press the reset button after changing the position of the switch.

Installation/Installation/Instalación/安装

Precautions

- Choose the mounting location carefully so that the unit will not interfere with the normal driving functions of the driver.
- Avoid installing the unit where it should be subject to high temperatures, such as from direct sunlight or from hot air from the heater, or where it would be subject to dust, dirt or excessive vibration
- Use only the supplied mounting hardware for a safe and secure installation

Précautions

- Choisir soigneusement l'emplacement de montage pour que l'appareil n'interfère pas avec les fonctions normales de conduite du véhicule.
- Eviter d'installer l'appareil là où il est susceptible de subir une haute température telle que celle de la lumière directe du soleil ou provenant d'un appareil de chauffage ou là où il serait exposé à la poussière ou la saleté ou à une vibration excessive
- Utiliser uniquement le matériel de montage fourni pour effectuer une installation sûre.

Precauciones

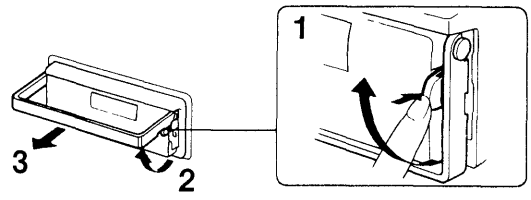
- Elija cuidadosamente el lugar de montaje de forma que la unidad no interfiera con las funciones normales de conducción
- Evite instalar la unidad donde pueda quedar sometida a altas temperaturas, como a la luz solar directa o al aire caliente de calefacción, o a polvo, suciedad, o vibraciones excesivas.
- Para realizar una instalación segura y firme, emplee solamente la ferretería de montaje suministrada

安装前须知事项

- 安装位置应选在不妨害驾驶者操作之处。
- 不可安装在易受自射阳光照射、暖气排出口等高温之处、或易受灰尘、污秽或震动大的地方。
- 安装时为保安全起见，请使用附属的安装用工具。

To Remove the Unit
Retrait de l'appareil
Para extraer la unidad
要取下时

When installed with the carrying handle
Lorsque l'appareil est installé avec la poignée de transport
Cuando esté instalada con el asa de transporte
若装着提手



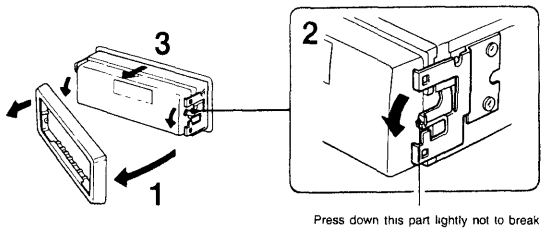
To prevent the unit from being stolen
When you leave your car, remove the unit from the bracket and take it away with you

Para evitar que le roben la unidad
Cuando salga de su automóvil, extraiga la unidad del soporte y llévela consigo

Prévention contre le vol
Lorsque l'on quitte la voiture, enlever l'appareil du support et l'amener avec soi

若要防止汽车收录音机被盗
在下车时可由机套中取下，随身携带。

When installed without the carrying handle
Lorsque l'appareil est installé sans la poignée de transport.
Cuando esté instalada sin el asa de transporte
若没安装提手



Press down this part lightly not to break it

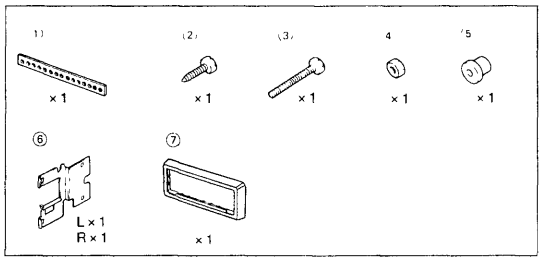
Appuyer légèrement sur cette partie afin de ne pas la briser

Presione hacia abajo la parte plateada con suavidad para no romperla.

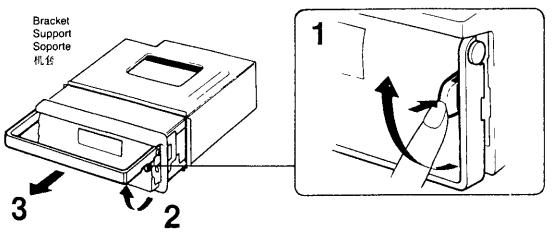
向下稍按银色部分，不可折断。

Supplied Mounting Hardware
Matériel de montage fourni
Ferretería de montaje suministrada
附属的安装工具

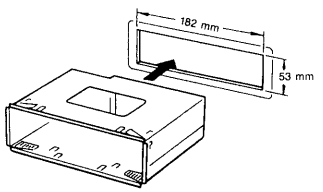
The numbers in the list are keyed to those in the instructions.
Les numéros dans la liste correspondent à ceux se trouvant dans les instructions
Los números de la lista corresponden a los de las instrucciones
下图工具号码和以下安装说明图中之号码相同。

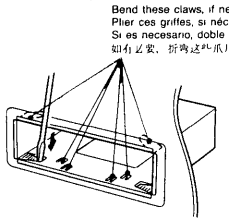


1 Remove the unit from the bracket.
Retirer l'appareil du support.
Extraiga la unidad del soporte.
由机套里依下图所示取出本机。

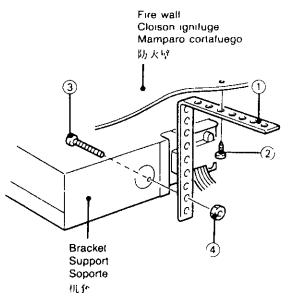


2 Install the bracket in the dashboard.
Installer le support dans le tableau de bord.
Instale el soporte en el salpicadero.
把机套安装在仪表板上。

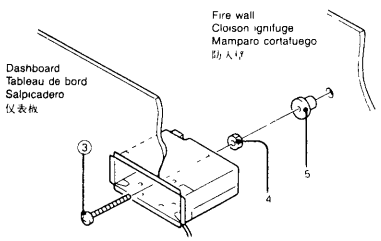




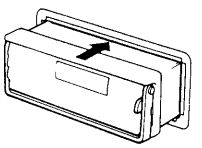
Example 1
Exemple 1
Ejemplo 1
例 1



Example 2
Exemple 2
Ejemplo 2
例 2

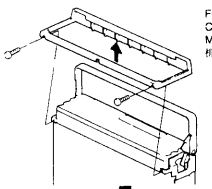


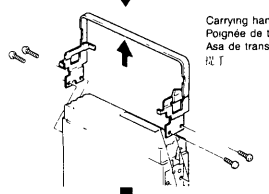
3A When installing the unit with the carrying handle
Installation de l'appareil avec la poignée de transport
Instalación de la unidad con el asa de transporte
安装附有提手的收录机时

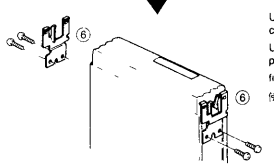


Push in the unit until it is locked firmly
Pousser l'appareil jusqu'à ce qu'il soit bien bloqué
Empuje la unidad hasta que quede firmemente enganchada
向内推入直到牢固装入为止

3B When installing the unit without the carrying handle
Installation de l'appareil sans la poignée de transport
Instalación de la unidad sin el asa de transporte
安装没附提手的收录机时

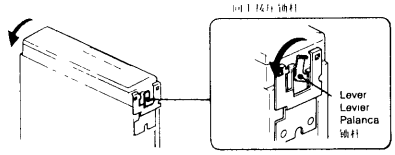


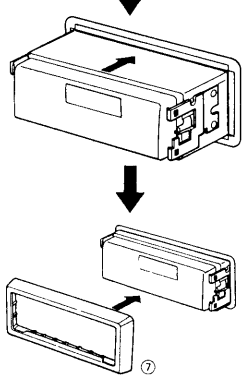




Use screws which fixed the carrying handle
Utiliser les vis qui fixaient la poignée de transport
fijaban el asa de transporte
使用拆合提手螺丝孔的螺钉。

Press down the lever
Appuyer sur le levier
Presione hacia abajo la palanca
向下按住锁杆





Connections/Connexions/Conexiones/ 连接

Caution

- This unit is designed for negative ground 12 V DC operation only.
- Before making connections, disconnect the ground terminal of the car battery to avoid short circuits.
- Connect the **red** power input lead only after all other leads are connected. And be sure to connect it to the positive 12 V power terminal. It will be energized when the ignition key is set to the accessory position.
- **Run all ground wires to a common ground point.**

Attention

- Cet appareil est conçu uniquement pour un fonctionnement sur courant continu de 12 volts avec mise à la masse négative.
- Avant d'effectuer les connexions, déconnecter la borne de masse de la batterie de voiture pour éviter des courts-circuits.
- Connecter le fil d'entrée d'alimentation **rouge** uniquement une fois tous les autres fils connectés. S'assurer de le connecter à la borne positive 12 volts qui est énergétisée lorsque la clé de contact est mise sur la position accessoire.
- **Amener tous les fils de masse sur un point commun.**

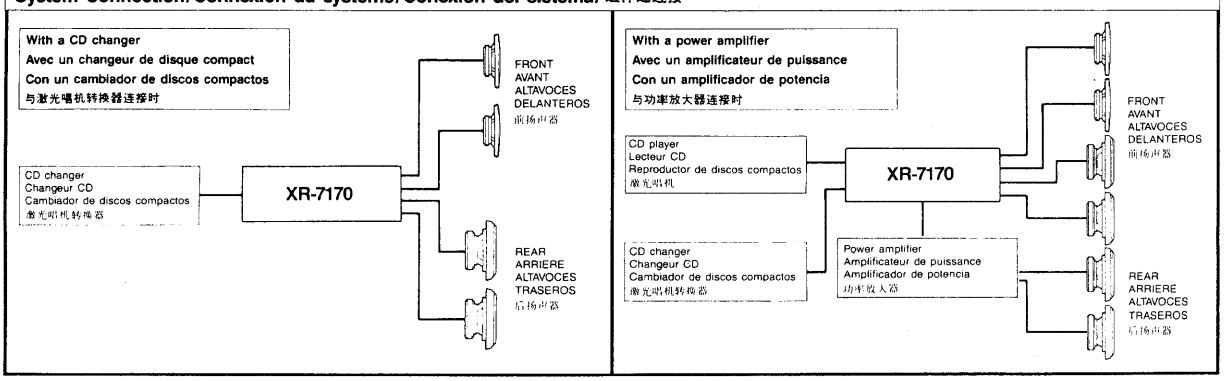
Precauciones

- Esta unidad ha sido diseñada para funcionar solamente con 12 V CC y negativo a masa.
- Antes de realizar las conexiones, desconecte el terminal de masa de la batería del automóvil a fin de evitar cortocircuitos.
- Conecte el conductor de entrada de alimentación **rojo** desqués de haber conectado los demás. No se olvide de conectarlo al terminal de alimentación de 12 V positivo. Este conductor deberá energizarse al poner la llave de encendido en la posición para accesorios.
- **Conecte todos los terminales de masa a un punto común del automóvil.**

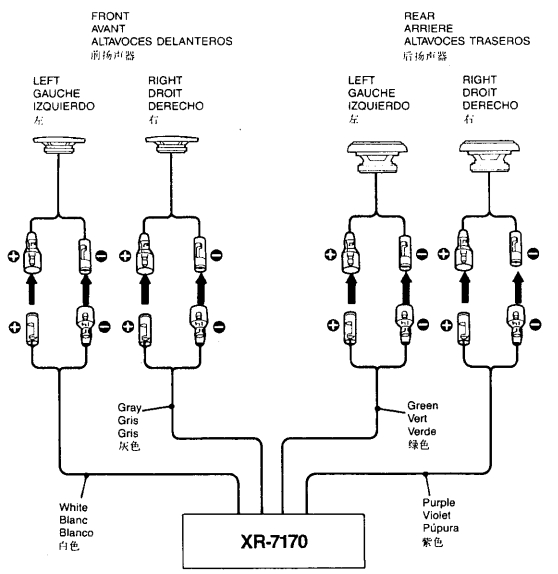
注意

- 本机只可使用负极接地的12V 直流电。
- 连接以前，请先拔下汽车电池接地端以防短路。
- 所有电线连接完毕以后才可连接**红色**电源线。电源线必须连接到正极12V 直流电端子才行。又，当引擎点火插口被转在附件"accessory"位置时，汽车将处于点火状态，敬请注意。
- **所有接地线请都接至一共同接地点。**

System Connection/Connexion du système/Conexión del sistema/ 组件之连接



Speaker Connection/Connexion des haut-parleurs/Conexión de los altavoces/ 与扬声器之连接



Notes on speaker connection

- Use speakers with an impedance of 3.2 to 8 ohms, and with adequate power handling capacities. Otherwise, the speakers may be damaged.
- Do not connect the terminals of the speaker system to the car chassis, and do not connect the terminals of the right speaker with those of the left speaker.
- Do not attempt to connect the speakers in parallel.

Remarques sur les connexions des haut-parleurs

- Utiliser des haut-parleurs d'une impédance de 3,2 à 8 ohms, et d'une capacité de puissance suffisante; faute de quoi, les haut-parleurs peuvent être endommagés.
- Ne pas raccorder les bornes des haut-parleurs au châssis du véhicule et ne pas raccorder les bornes du haut-parleur droit à celles du haut-parleur gauche.
- Ne pas essayer de raccorder les haut-parleurs en parallèle.

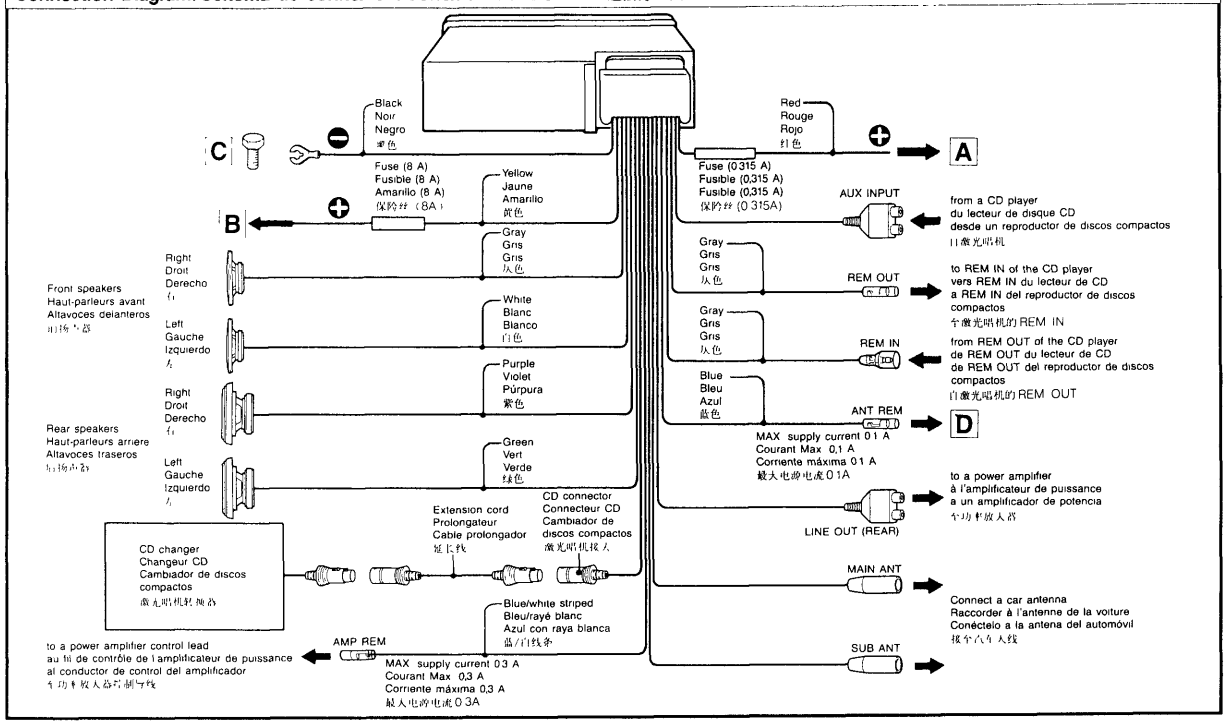
Notas sobre las conexiones de los altavoces

- Use los altavoces con una impedancia de 3,2 a 8 ohmios y con la capacidad de potencia admisible adecuada. De otra maneram, podrían dañarse los altavoces.
- No conecte los terminales del sistema de altavoces al chasis del automóvil, ni conecte los terminales del altavoz derecho a los del izquierdo.
- No intente conectar los altavoces en paralelo.

连接扬声器时须知事项

- 请使用3.2 至8Ω 阻抗及适当操作电容量的扬声器，否则，扬声器易受损坏。
- 不可把扬声器端子连接于汽车的车架，也不可把左、右两扬声器的端子相连接。
- 不可并联连接各扬声器。

Connection Diagram/Schéma de connexion/Conexión del sistema/ 连接方块图



A to the +12 V power terminal which is energized in the accessory position of the ignition key

B to the +12 V power terminal which is energized at all times

C to a metal part of the car

D to a power antenna relay control box

Notes on the control leads

- The power antenna control lead (blue) supplies +12 V DC when you turn on the tuner or the ATA* function is activated. A power antenna without relay box cannot be used with this unit. For details about the power antenna, refer to the power antenna instruction manual.
- When the power antenna control lead or the power amplifier control lead is in contact with a metal part of the car, the unit cannot be turned on because the protection circuit is activated.

* Automatic Tuner Activation

After completing the connections and mounting the unit into the bracket, press the reset button of this unit. The reset button is effective only when the unit is mounted in the bracket.

Note on the power select switch

You can change illumination mode with the power select switch located on the bottom of the unit. The switch is factory-set to the ON position.
If your car has no accessory position, set the switch to the OFF position with a pencil or similar objects. After changing position of the power select switch and mounting the unit into the bracket, be sure to press the reset button. For details about the illumination mode, refer to the operating instructions (page ⓫).

Note on AM tuning interval

The AM tuning interval is factory-set to 9 kHz. **If the frequency allocation system of your country is based on 10 kHz, set the selector on the bottom to the 10 kHz position.**
After changing the position of the selector and mounting the unit into the bracket, be sure to press the reset button. For details, refer to the operating instructions (page ⓫).

Note on the antenna connector

If you use a diversity antenna, connect it to **both the MAIN ANT and SUB ANT connectors.** If you do not use it and you connect an antenna with only one connector, be sure to connect the antenna to **the MAIN ANT connector.**

Note on the DIVERSITY switch

If you connect the diversity antenna, set the DIVERSITY switch located at the bottom to the ON position to activate the diversity reception system of the unit. **If you do not connect it and you use an antenna with only one connector, set the switch to the OFF position.** After changing the position of the switch and mounting the unit into the bracket, be sure to press the reset button. Also refer to the operating instructions (page ⓫).

A A la borne d'alimentation positive 12 volts qui est energetisée lorsque la clé de contact est sur la position accessoire

B A la borne d'alimentation positive 12 volts qui est energetisée en permanence

C A un point métallique de la voiture

D Au boîtier de contrôle de relais d'antenne motorisée

Remarques sur les fils de contrôle

- Le fil de contrôle de l'antenne motorisée (bleu) fournit une alimentation de courant continu positif de 12 volts lorsque le tuner est mis sous tension ou la fonction ATA* est activée. Une antenne motorisée sans boîtier de relais ne peut être utilisée avec cet appareil. Pour plus de détails sur l'antenne motorisée, se reporter à son mode d'emploi.
- Lorsque le fil de contrôle de l'antenne motorisée ou le fil de contrôle de l'amplificateur de puissance est en contact avec une partie métallique de la voiture, l'appareil ne peut être mis sous tension puisque le circuit de protection est alors activé.

* Automatic Tuner Activation (enclenchement automatique du tuner)

Après avoir terminé les connexions et le montage de l'appareil dans le support, appuyer sur la touche de réinitialisation. Cette touche est opérationnelle uniquement lorsque l'appareil est installé dans le support.

Remarque sur le sélecteur d'alimentation

Il est possible de changer de mode d'illumination en se servant du selecteur est, sintué sur le socle, qui préréglé à l'usine sur la position ON. **Si la voiture n'est pas munie de la position accessoire, régler le sélecteur sur la position OFF** à l'aide d'un crayon ou d'un objet similaire. Si la position de ce selecteur a été modifiee, ne pas oublier d'appuyer sur la touche de réinitialisation après le montage de l'appareil dans le support. Pour plus de détails sur le mode d'illumination, se reporter au mode d'emploi (page ⓫).

Remarque au sujet de l'intervalle d'accord AM

L'intervalle d'accord AM est préréglé en usine sur 9 kHz. **Si le système d'attribution de fréquence de votre pays est basé sur 10 kHz, mettre le sélecteur situé sur le socle sur la position de 10 kHz.**
Après avoir modifié la position du sélecteur et installé l'appareil dans le support, ne pas oublier d'appuyer sur la touche de réinitialisation. Pour plus de details, se reporter au mode d'emploi (page ⓫).

Remarque au sujet du connecteur d'antenne

Si une antenne diversité est utilisée, **raccorder aux deux connecteurs MAIN ANT et SUB ANT.** Si elle n'est pas utilisée et si une seule antenne est connectee, verifier que celle-ci soit bien branchee **sur MAIN ANT.**

Remarque sur le commutateur DIVERSITY

Si l'antenne diversité est raccordée, mettre les commutateur DIVERSITY situé sur le socle sur la position ON pour actionner le système de reception en diversité de l'appareil. **S'il n'est pas connecté et si une antenne est utilisee avec un seul connecteur, mettre sur la position OFF.** Apres avoir change de position du commutateur et installe l'appareil dans le support, ne pas oublier d'appuyer sur la touche de réinitialisation. Se reporter au mode d emploi (page ⓫).

A al terminal de alimentación de +12 V que se energice al poner la llave de encendido en la posición para accesorios

B al terminal de alimentacion de +12 V que este permanentemente enrgizado

C a una parte metálica del automóvil

D al conductor de la caja de control del relé de antena motorizada

Notas sobre los conductores de control

- El conductor de control de la antena motorizada (azul) suministrará +12 V CC cuando conecte la alimentación del sintonizador o cuando se active la función de ATA* Con esta unidad podrá emplearse una antena motorizada sin caja de relés. Con respecto a los detalles sobre la antena motorizada, consulte el manual de instrucciones de la misma.
- Si el conductor de control de la antena motorizada o el de control del amplificador de potencia entra en contacto con una parte metalica del automóvil, no será posible activar la unidad debido a la acción de un circuito protector.

* Activación automática del sintonizador

después de finalizar las conexiones y el montaje de la unidad en el soporte, presione la tecla de reposición. La tecla de reposición solamente será efectiva cuando la unidad esté montada en el soporte.

Notas sobre el selector de alimentación

Usted podrá elegir el modo de iluminación cambinado el selector de alimentación cambinado el selector de alimentación situado en la parte inferior de la unidad. El selector ha sido puesto en fábrica en la posición ON.
Si su automóvil no posee posición para accesorios, que ponga el selector en la posición OFF con un lápiz u otro objeto similar. Después de cambiar la posición del selector de alimentación, y de montar la unidad en el soporte, cerciórese de presionar la tecla dereposición. Con respecto al los detalles sobre el modo de iluminición, consulte el manual de instrucciones (página ⓫).

Nota sobre el intervalo de sintonía de AM

El intervalo de sintonia de AM ha sido ajustado en fábrica a 9 kHz. **Si el sistema de asignación de frecuencias de su país se basa en 10 kHz, ponga el selector del panel inferior en la posición 10 kHz.** Después de haber cambiado la posición del selector y de haber montado la unidad en el soporte cerciórese de presionar el botón de reposición. Con respecto a los detalles, consulte el manual de instrucciones (página ⓫).

Nota sobre el conector de antena

Si emplea una antena para diversidad, **conecte tanto el conector MAIN ANT como el SUB ANT.** Si solamente desea conectar una antena a un conector cerciórese de emplear **el conector MAIN ANT.**

Nota sobre el interruptor DIVERSITY

Si conecta la antena para diversidad, ponga el interruptor DIVERSITY situado en el panel inferior en la posición ON a fin de activar el sistema de recepción en diversidad. **Si solamente desea conectar una antena a un conector, ponga el interruptor en la posición OFF.** Después de haber cambiado la posicion del interruptor y de haber montado la unidad en el soporte, cerciorese de presionar el botón de reposición. Consulte, además el manual de instrucciones (página ⓫).

A 至 12V 电源端子。当把点火开关钥匙转到 "accessory"（辅助）位置时，此端子即成通电状态。

B 至 12V 电源端子，此端子随时都成通电状态。

C 至汽车体的金属部分。

D 至功率天线延迟控制箱。

控制导线

- 在调谐机自动开机（即 ATA* 功能）状态下或接通调谐机电源时，功率天线控制导线（蓝色）将供给 12V 直流电。若没附延迟箱的功率天线本机便不能使用。功率天线的详细使用法请参看该使用说明书。
- 功率天线控制导线或功率放大器控制导线若触及汽车金属部分，则本机保护电路开始工作使本机无法接通电源。

* 即自动调谐机开机功能之意。

电线连接完毕，本机装入机套以后，请按压本机重整按钮。请注意，重整按钮只有在本机装入机套以后才能使用。

功率选择开关

以本机机底的功率选择开关，您可改变照明方式。本开关在本机出厂以前已被设定于 "ON" 之处。**若您的汽车没附有附件 "accessory" 位置，则请以铅笔等物把开关位置调整在 "OFF"。**功率选择开关位置调整完毕，装回机套以后，切记须先按压重整按钮。有关照明方式的详细情形，请参看本机操作说明书（第 86 页）。

留意 AM 调谐区间

AM 调谐区间的工厂设定为 9kHz。**如果贵国的频段分配是以 10kHz 为基准，请将位于机器底部的选择开关推到 10kHz 的位置上。**当转变完毕选择开关的位置，并将机器安装入托架之后，须记住一定要按一下重调按钮。

详细说明，请参考使用说明书（第 86 页）。

留意天线插孔

如果是利用分集式天线，则把它连接到 **MAIN ANT（主天线）和 SUB ANT（辅助天线）两插孔。**如果不用分集式天线而只利用一根天线连接到一个插孔时，请一定要把天线接到 **MAIN ANT** 插孔。

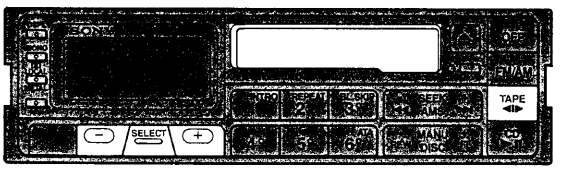
留意分集开关

要连接分集式天线使用时，请把位于机器底部的分集开关推到 **ON（接通）的位置，**以使使机器的分集接收系统发生作用。**如果不接用分集接收系统而只连接一个天线到一个插孔时，**请把开关推到 **OFF（断开）**的位置。每当转变完毕开关的开或闭的位置，并将机器装入托架之后，须记住要按一下重调按钮。

详细说明，请参考使用说明书（第 87 页）。

Cassette deck operation

Tape Playback



1

Insert a cassette to start playback.

TAPE

Press the TAPE button when a cassette is already inserted.

2 SELECT

Press to adjust the volume.

Other Operations

To rewind or fast-forward the tape	REW MANU DISC FF (rewind) (fast-forward)
To listen to the other side of the cassette	TAPE
To take out the cassette	⏏
To stop the tape and listen to the radio	FM/AM

To play back the tape again	TAPE
To stop the tape and turn off the unit	OFF
To stop the tape and listen to a disc	CD ▶II
To play the connected auxiliary source	Start playing the connected source. "AUX" appears on the display window.

Side of the cassette being played back

This unit plays back both sides of the cassette repeatedly. The indicator in the display window shows which side of the cassette is being played back.

Indicator	Side
▶	The side facing upward
◁	The side facing downward

Listening to the CrO_2 (TYPE II) or Metal (TAPE IV) Tapes

Press LOCAL / METAL.

MTL appears in the display window.
To listen to the normal (TYPE I) tapes, press it again.

Listening to Dolby NR-processed Tapes

Press MONO / DD.

Press to activate the B-type or C-type Dolby NR system.
Select the same Dolby NR system used for the recorded cassette.
The Dolby NR (Noise Reduction) system reduces tape hiss noise in low-level, high-frequency signals.

Listening to the First Portions of Selections in Order (Intro scan)

Press INTRO 1.

(during tape playback)

The first ten seconds of each selection will be played back in order from the next selection. Press again to release this function.

Repeating the Selection Being Played (Repeat play)

Press REPEAT 2.

The unit goes back to the beginning of the selection when the selection ends. Press again to release this function.

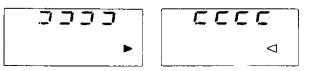
Skipping the Long Blank (Blank skip function)

Press BL.SKIP 3°.

The unit skips the long blank (more than eight seconds) automatically and plays back the next selection. Press again to release this function.

To display the tape running indicator

Press DSPL. The running indicator appears in the display window. To restore the normal indication, Press it again.

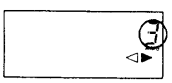


Locating the Beginning of a Desired Selection During Playback (AMS function)

During tape playback

Press SEEK AMS as many times as the number of selections you want to skip.
Up to 9 selections can be skipped.

To locate a selection ahead	Press SEEK AMS ▶▶.
To locate a previous selection	Press SEEK AMS ◀◀.

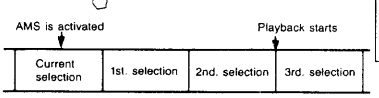


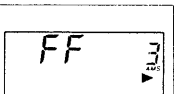
The number in the display window shows how many selections will be skipped.

Examples

• When you want to listen to the third selection ahead from the current selection

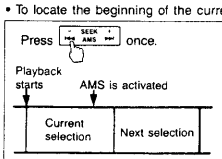
Press SEEK AMS ▶▶ three times.

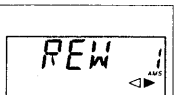




• To locate the beginning of the current selection

Press SEEK AMS ◀◀ once.





To Turn on the Radio Automatically While Fast-winding the Tape (ATA function)

Press ATA 6°.

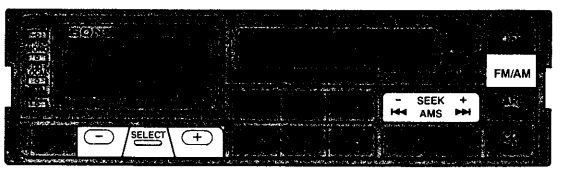
The tuner turns on automatically when you press the REW or FF during tape playback. When you resume the tape playback, the tuner turns off automatically.

To display the frequency indication while the ATA is operating

Press DSPL. The display window shows the frequency which you tuned in last time. In this case, all the tuner operation buttons function in the same way as when you turn on the tuner (except for the FM/AM button).

Radio reception

Automatic Tuning



1 FM/AM

Press to select the desired band, FM1, FM2, FM3 or AM.

The tuner turns on at the same time.

2 SEEK AMS

Press to start scanning.

For lower frequencies

For higher frequencies

The scanning automatically stops when a station is tuned in.

Repeat this step until the desired station is tuned in.

3 SELECT

Press to adjust the volume.

FM has three bands (FM1, FM2, FM3). Three bands cover the same frequency range. To change the band, press FM/AM button.

Other Operations

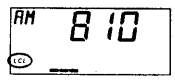
To stop the radio and start tape playback

When no cassette is inserted	To stop the radio and turn off the unit: OFF
When a cassette is already inserted: TAPE	To stop the radio and listen to a disc: CD

When there are too many stations and the scanning stops too frequently during automatic tuning

Press LOCAL / METAL

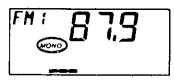
Only the stations with relatively strong signals can be tuned in.



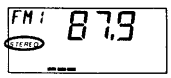
When the FM stereo program is too weak and noisy

Press MONO

The noise will be reduced. The sound will be monaural instead.



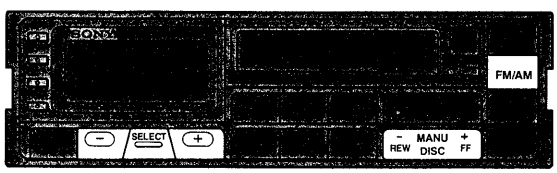
When the FM stereo program of sufficient signal strength is tuned in



The program is automatically received in stereo.

Radio reception

Manual Tuning



1 FM/AM

Press to select the desired band, FM1, FM2, FM3 or AM.

The tuner turns on at the same time.

2 REW MANU DISC FF

Press to select the desired station.

For lower frequencies

For higher frequencies

To change the frequency rapidly, keep the button pressed.

3 SELECT

Press to adjust the volume.

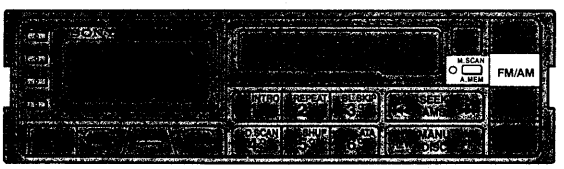
Warning

While driving, keep your eyes on the road and use the automatic tuning or the memory preset tuning!

Radio reception

The unit can memorize a total of 24 stations, one on each preset button and 6 stations for each band.

Memorizing the Stations Automatically
(Automatic Memory Function)



1 FM/AM

Press to select the desired band, FM1, FM2, FM3 or AM.

The tuner turns on at same time.

2 M.SCAN / A.MEM

Press for more than two seconds.

The unit starts scanning the selected band and memorizes the tuned stations on the preset number button 1 through 6 automatically.

In what way are stations scanned and memorized?

The unit scans the selected band twice. The scanning starts from the displayed frequency. During the first cycle, the unit scans stations with considerably strong signals. During the next cycle, the unit scans stations that can be received, including weak ones. And for memorizing, if any preset number is indicated in the display window, memorizing starts from this preset number. When you choose FM2 and the preset number 3 is displayed in the window, for example, memorizing starts from the preset number 3 on FM2, and stops at the preset number 6 on FM 3.

Memory Preset Tuning

Surveying What is Being Broadcast on the Preset Stations

Press M SCAN / A MEM lightly

Each memorized station will be scanned for five seconds in order (When the broadcast of the memorized station is too weak, it cannot be received.)

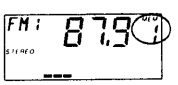
Note

Be sure to press it lightly. If you keep it pressed for more than two seconds, the Automatic Memory Function (A MEM) will be activated and new stations will be memorized on the preset buttons.

Memorizing Only the Desired Stations Manually

Example: To memorize on the preset number 1

1. FM/AM — **Press to select the desired band.**
2. − SEEK + AMS, or − MANU + REW DISC FF — **Press to tune in the desired station.**
3. INTRO 1 — **Press for more than two seconds.**



The number of the pressed preset number button will be displayed, MEM indicator appears to show that the station has been memorized. (MEM indicator will disappear in a few seconds.)

Repeat these steps for each preset button.

Important

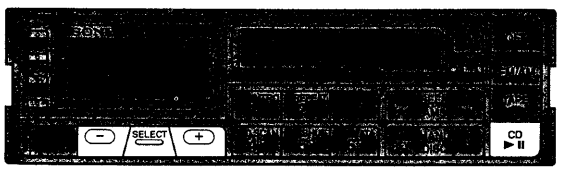
Every preset number button has only one memory for a band. The previously memorized station will be erased when you enter a new station of the same band on the same preset number button.

To Receive the Preset Station

1. FM/AM — **Press to select the desired band.**
2. INTRO 1 — ATA 6° — **Press lightly to receive the desired station.**

CD operation

Disc Playing (When the optional Sony CD changer is connected)



Before operating, insert a disc magazine with discs into the CD changer.

1. CD ▶II — **Press to start the disc play.**
2. SELECT — **Press to adjust the volume.**

Other Operations

To pause during play	CD ▶II
To start again	CD ▶II
To listen to another disc in the disc magazine	− MANU + REW DISC FF Press lightly If you press it for more than 0.5 second, it operates as the manual search

To stop disc play and start tape playback

When no cassette is inserted	
When a cassette is already inserted	TAPE ◀II▶

To stop disc play and...

To listen to the radio	FM/AM
To play the connected auxiliary source	Start playing the connected source "AUX" appears on the display window
To turn off the unit	OFF

Locating the Beginning of a Desired Selection during Disc Playing (AMS Function)

To locate the beginning of the selection being played	Press − SEEK + AMS.
To locate a previous selection	Keep − SEEK + AMS pressed. Release the button at the desired selection.
To locate the next selection	Press − SEEK + AMS
To locate a selection ahead	Keep − SEEK + AMS pressed Release the button at the desired selection

When the first selection or the last selection of the disc is located, the play begins from the selection.

To Search for a Particular Point in a Selection (Manual search)

To go ahead at high speed	Keep − MANU + REW DISC FF pressed. Release the button at the desired point.
To go back at high speed	Keep − MANU + REW DISC FF pressed. Release the button at the desired point.

The elapsed time of the selection is displayed during the manual search.

To display the elapsed time during disc playing

Press DSPL. The elapsed time of the selection is indicated in the display window. To restore the normal indication, press it again.

Disc Playing

Various Plays

To listen to the beginnings of the selections in order (Intro play)*

Press [INTRO 1]. The first ten seconds of each selection on every disc will be played in sequence from the next selection

To repeat the selection being played (Repeat play)

Press [REPEAT 2]. The unit goes back to the beginning of the selection when the selection ends.

To search for the desired disc (Disc scan)

Press [D SCAN 4°]. The first ten seconds of the first selection on each disc will be played in sequence.

To play the selection on the disc in random order (Shuffle play 1)*

Press [SHUF 5°]. All selections on a disc being played will be played in random order. After playing all selections on the disc, the unit goes to the next disc.

To play the selection on all discs in random order (Shuffle play 2)*

Press [SHUF 5°] for more than two seconds. All selections on all discs in the disc magazine will be played in random order.

To turn on the radio automatically while changing discs (ATA function)

Press [ATA 6°]. The radio is heard automatically while changing discs. Press DSPL to display the frequency indication while the ATA is operating. In this case, all the tuner operation buttons function in the same way as when you turn on the tuner (except for the FM/AM button)

To resume normal playback
Press each button again.

* When you press the INTRO button during the shuffle play (1 or 2), the first ten seconds of all selections will be played in random order

Maintenance

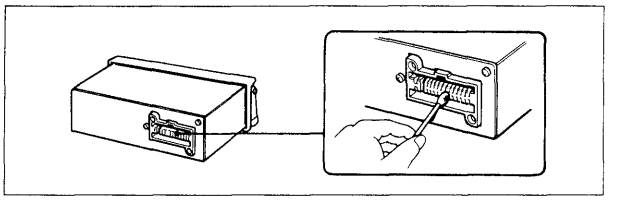
Fuse Replacement

If the fuse blows, check the power connection and replace the fuse. If the fuse blows again after replacement, there may be an internal malfunction. In this case, consult your nearest Sony dealer.

Warning
Use the specified ampere fuse.
Use of a higher amperage fuse may cause serious damage.

Cleaning the Connector

To keep the best possible sound quality, clean the metallic part of the connector at the rear of the unit periodically using a commercially available head cleaning fluid or rubbing alcohol and a cotton swab.



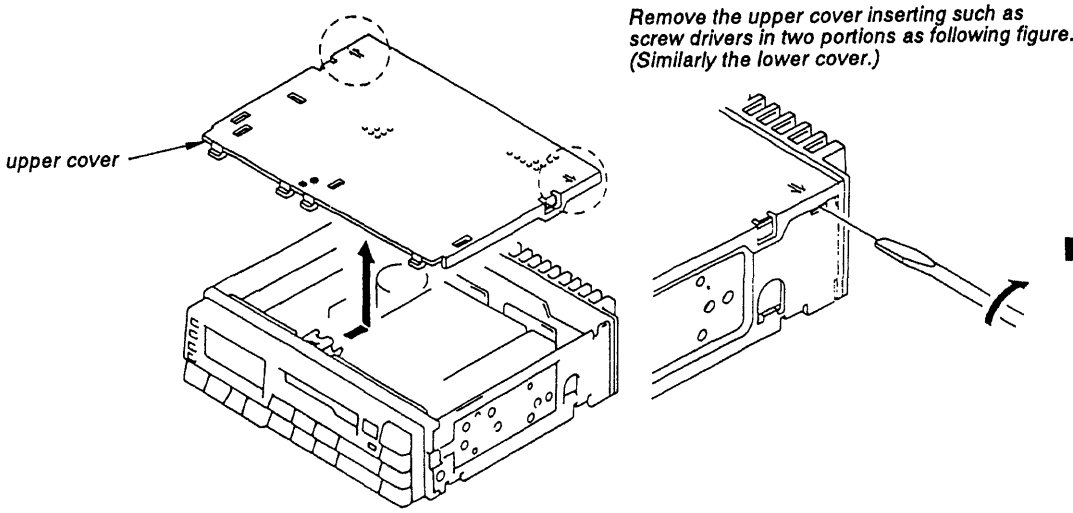
Cleaning the Head and the Tape Path

Prolonged use may contaminate the tape head and the tape path. Contamination causes sound drop-outs in playback.
Clean the tape head and the tape path every two weeks to enjoy optimum hi-fi stereo sound.
Use a commercially available cleaning cassette.

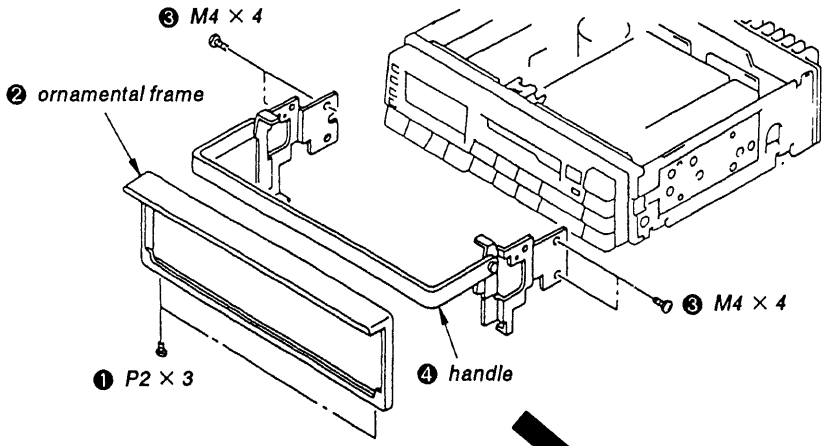
SECTION 2
DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.

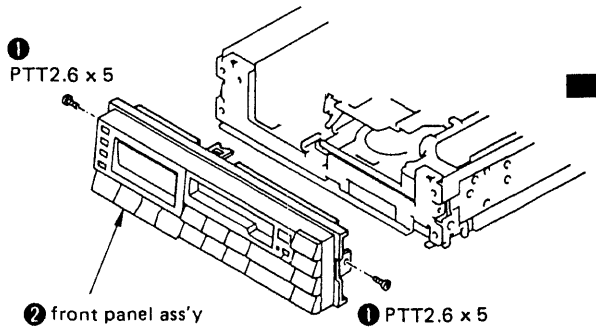
UPPER COVER


upper cover
Remove the upper cover inserting such as screw drivers in two portions as following figure. (Similarly the lower cover.)

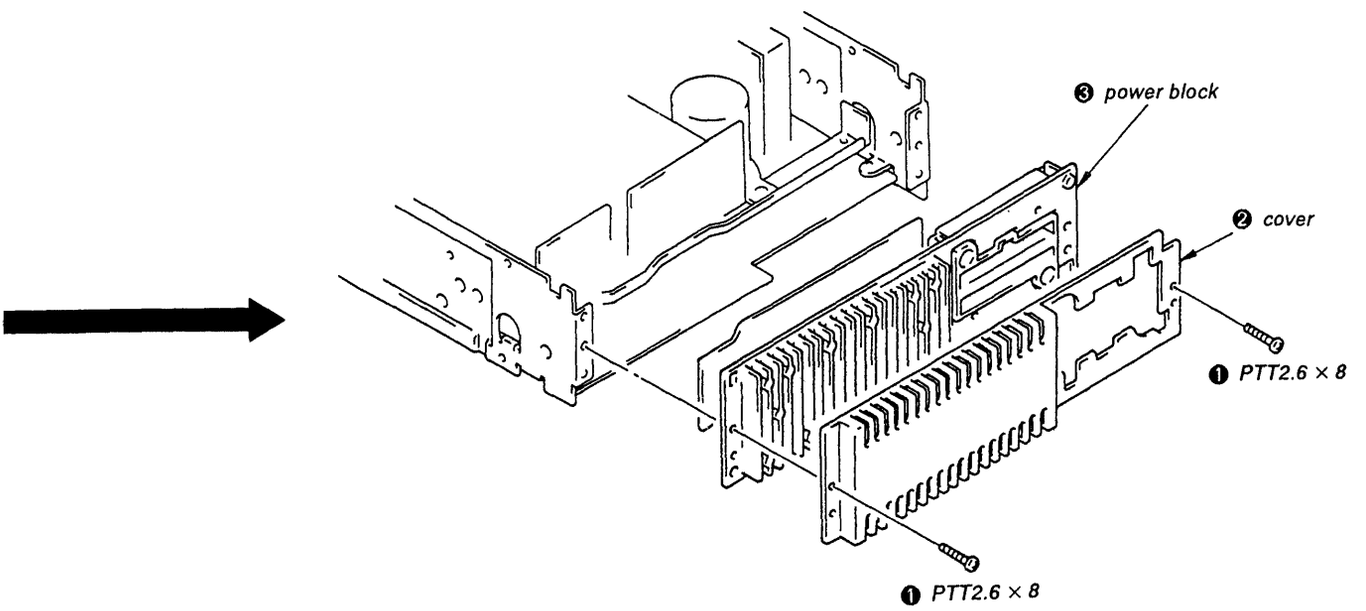
HANDLE



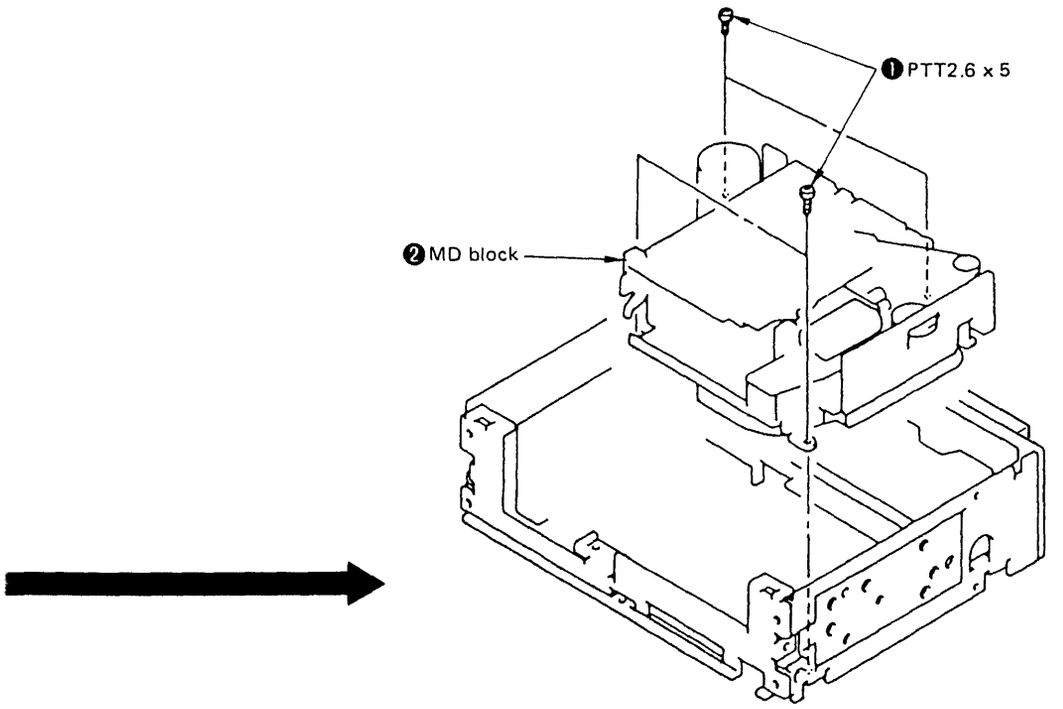
FRONT PANEL ASSEMBLY



POWER BLOCK



MD BLOCK



SECTION 3
ADJUSTMENTS

3-1. MECHANICAL ADJUSTMENT

PRECAUTION

1. Wipe the following components with an absorbent cotton cloth moistened with alcohol before adjustment:
   PB head — Pinch roller
   Idler — Rubber belt
   Capstan
2. Demagnetize the PB head using a head demagnetizer.
3. Be careful not to use a magnetized screwdriver.
4. After adjustment is completed, lock the adjustment parts using screws.
5. Unless otherwise specified, make adjustments at the specified voltage (14.4 V).

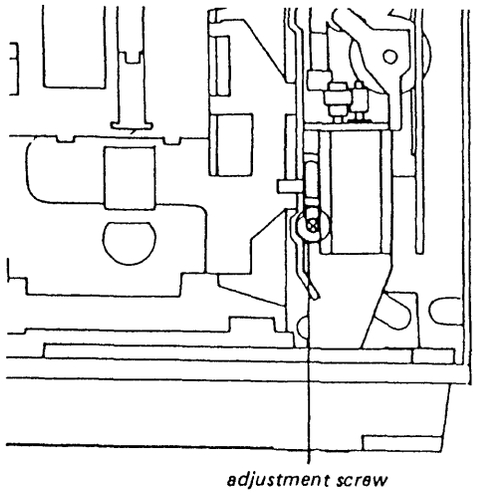
0 dB=775m V

Torque Measurement

Measure the torque at a supply voltage of 14.4 V DC.

	Torque meter	Meter reading
FWD	CQ-102C	30 to 60 g•cm (0.42 to 0.84 oz•inch)
FF, REV	CQ-201B	80 to 170 g•cm (1.12 to 2.38 oz•inch)
Back tension	CQ-102C	1 to 4 g•cm or less (0.01 to 0.05 oz•inch or less)

Adjustment Location:

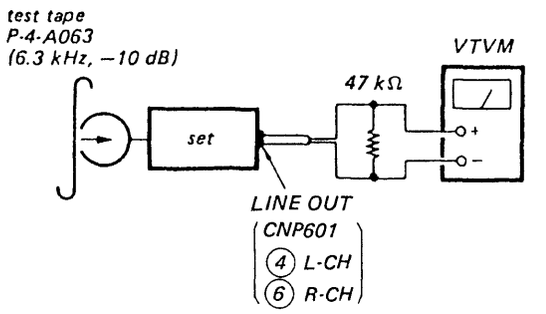


3-2. ELECTRICAL ADJUSTMENTS DECK SECTION

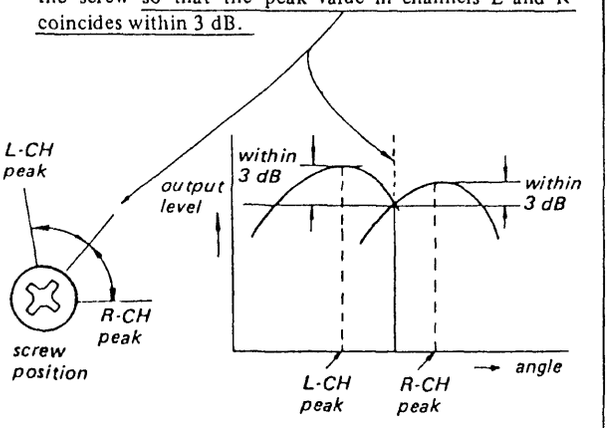
PB Head Vertical Adjustment

Proceudre:

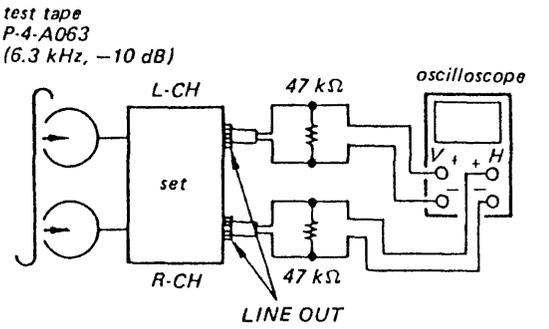
1. Put the set into the FWD PB mode.

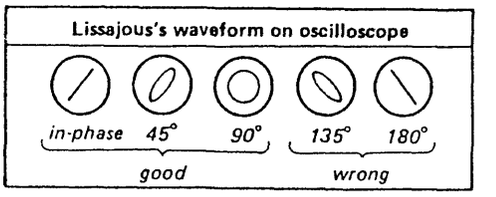


2. Turn the screw and check the output peak value. Adjust the screw so that the peak value in channels L and R coincides within 3 dB.



3. Check the phase in the PB mode.



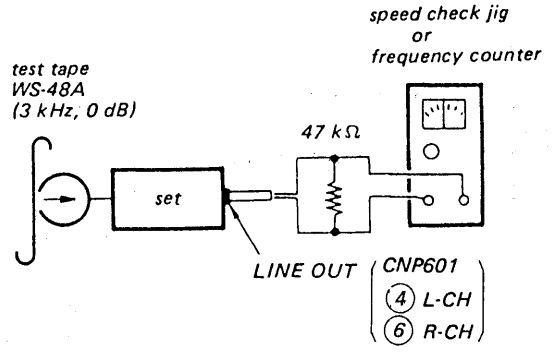


4. Repeat the above adjustment for the PB REV mode.

Capstan Motor Tape Speed Adjustment

Procedure:

1. Put the set into the FWD PB mode.

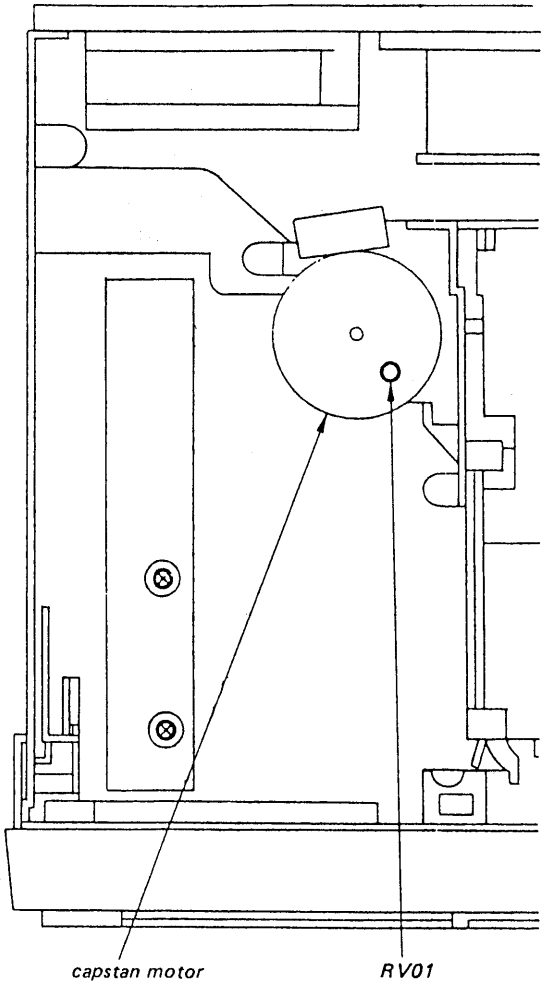


Specification: Constant speed

Speed check jig	Frequency counter
− 0.2 to +0.2%	2,995 to 3,005 Hz

Adjust so that the frequency difference between the FWD and REV modes in within 1.3% (40 Hz).

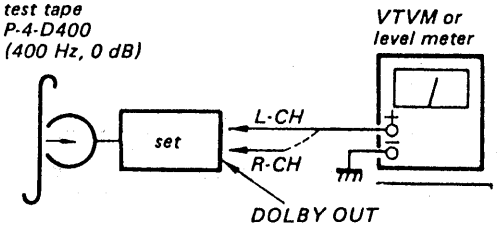
Adjustment Location: RV01



DOLBY NR Level Adjustment

Setting:

DOLBY NR switch: OFF
METAL switch: OFF

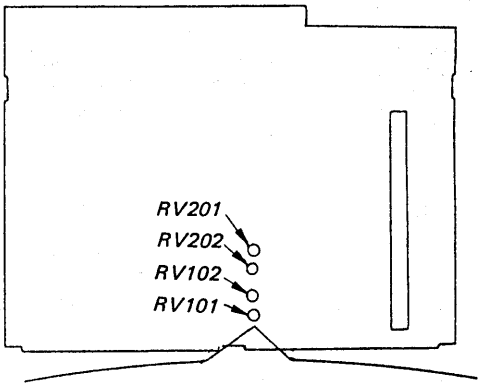


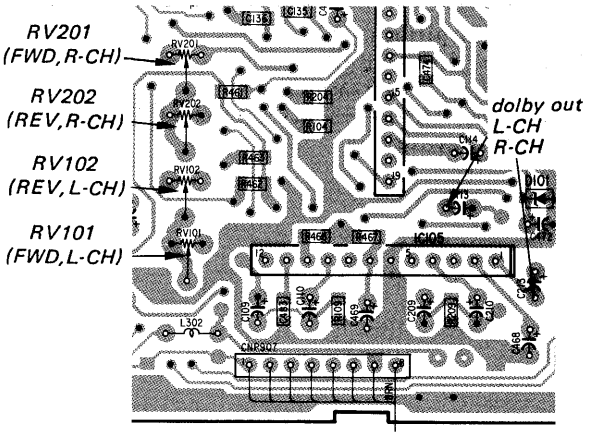
Procedure:

1. Put the set into the FWD PB mode.
2. Adjust RV101 (L-CH) and RV201 (R-CH) so that VTVM reading is − 4.7 ± 0.3 dB.
3. Put the set into the REV PB mode.
4. Adjust RV102 (L-CH) and RV202 (R-CH) so that VTVM reading is − 4.7 ± 0.3 dB. (− 4.7 ± 0.3 dB: approx. 0.47 to 0.44 V)

Adjustment Locationn : MAIN board

[MAIN BOARD] (Conductor Side)





REFERENCE

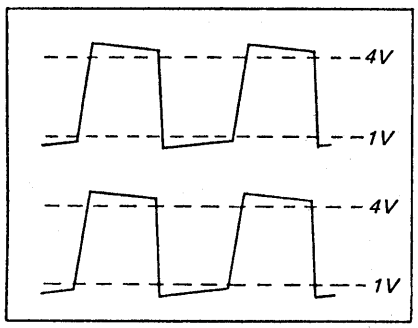
Tape End Detection Check

Tape End Detection adjustment
Before adjusting,set to the test mode 2.
(Refer to Torque Measurement.)

Test tape: *C-60 (or any)*
Setting: *FF or REW*

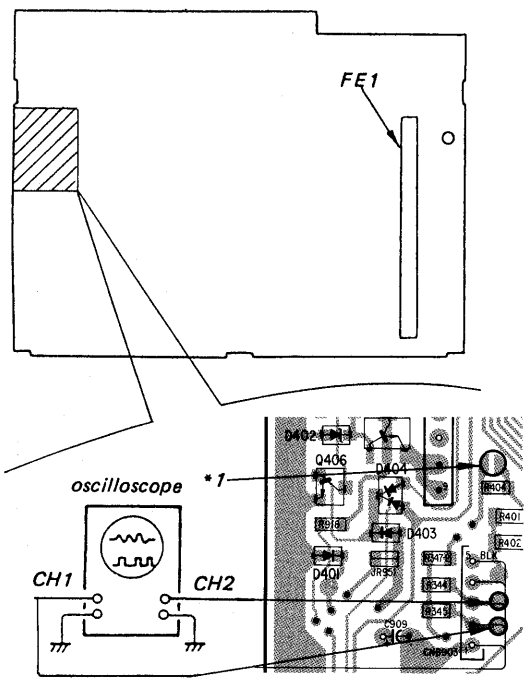
Procedures:

1. Confirm that the both voltages of CH1 and CH2 are more than 4 V at their higher level and less than 1 V at their lower level.
2. If the specification above is not satisfied make a solder bridge at the portion of the pattern marked with *1 on MAIN BOARD, and confirm that the specification of Procedure 1 is satisfied.



Adjustment Location: Main board

[MAIN BOARD] (Conductor Side)



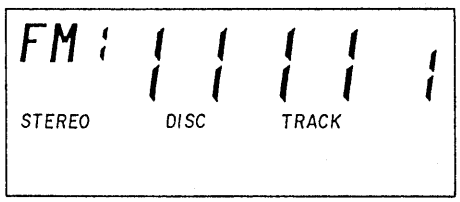
TUNER SECTION

Cautions during repair
When the front end is defective, replace it by a new one because its internal block is difficult to repair.

Setting Procedure:

1. While pressing "MUTE" (S724) and "1" (S702) buttons simultaneously,press "RESET" (S740) button.
2. When the test mode is set and "LOUD" is on in AM mode,measurement is available.
   It becomes the standard AM 28 ± 4 dB.
   "II" (PAUSE mark) is displayed on the right foot of the display window.
3. Test mode releasing procedure after measuring is pressing "OFF" (S734) or "RESET" (S740) buttons.
   * FM Auto Scan/Stop Level Adjustment is available on either normal operation or the test mode operation.

LCD display pattern on setting the test mode 1 (step 1).



* First display pattern in 12 steps.

Test Mode Setting Procedure:

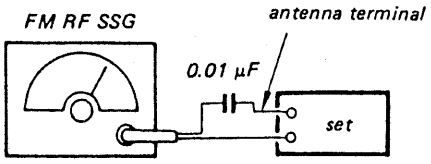
It is easy to adjust FM/AM auto scan/stop level in this test mode.

1. While pressing "MUTE" or "SDK" (S724) and "1" (S702) buttons simultaneously, press "RESET" (S740) button.
2. Test mode releasing procedure after measuring is pressing "OFF" (S734) or "RESET" (S740) buttons.
   * FM/AM Auto Scan/Stop Level Adjustment is available on either normal operation or the test mode operation.

FM Auto Scan/Stop Level Adjustment

Setting:

Band switch: : FM
MONO switch : ON
Frequency : 98.0 MHz



Carrier frequency: 98.0 MHz
Output level: 25 dB (18 μ V)
Mode: mono, unmodulated

Procedure:

(In Normal Operation)

1. Tune in 98.0 MHz.
2. Turn RV3 clockwise and make the voltage low.
3. Adjust RV3 so that the VOM reading changes from low to high (5 V reference voltage).
4. When the FM RF SSG's output level is 25 ± 4 dB, check that the auto scan is stopped.

(In Test Mode Operation)

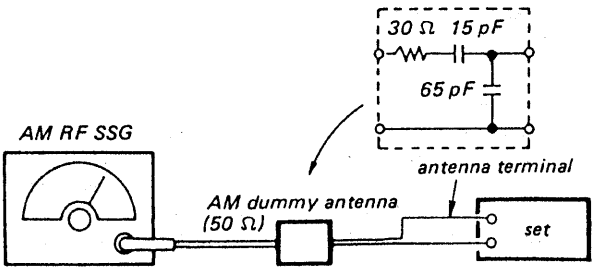
1. Turn RV3 clockwise and make the voltage low.
2. Adjust RV3 so that the " ▮▮ " (PAUSE) mark becomes on.
3. When the FM RF SSG's output level is 25 ± 4 dB, check that the auto scan is stopped.

AM Auto Scan/Stop Level Adjustment

Note : This adjustment should be made after FM auto scan stop level adjustment is completed.

Setting:

Band switch: AM : XR-7170/7172 MW: XR-7171
Frequency: 999 kHz



Carrier frequency: 999 kHz
Output level: 28 dB (28 μ V)
Mode: no modulation

Procedure:

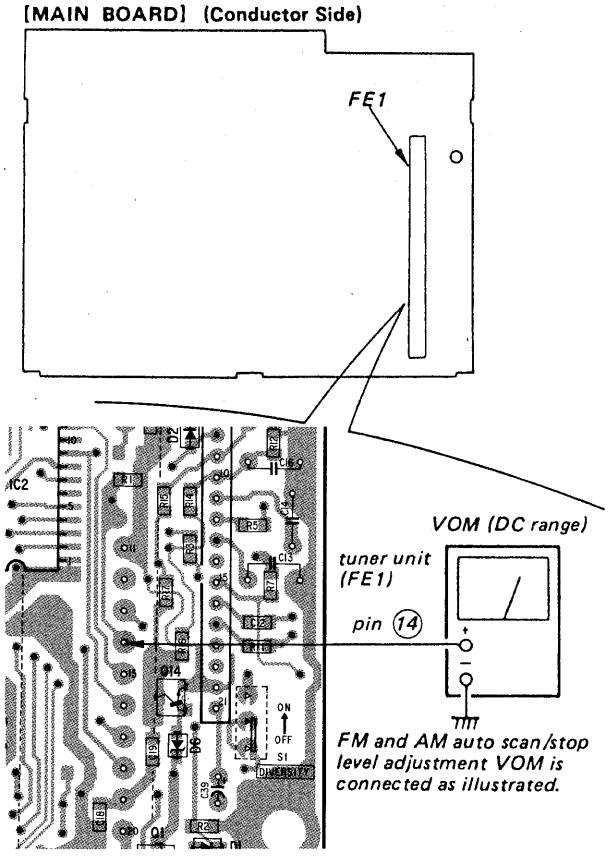
(In Normal Operation)

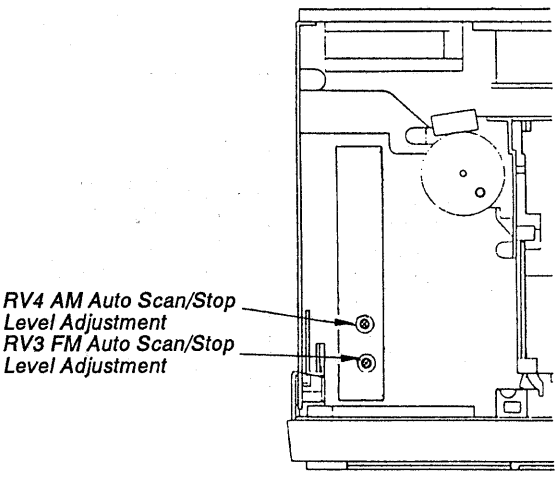
1. Turn RV4 clockwise.
2. Press preset "2" button and "SEEK +" button.
3. Adjust RV4 so that the frequency display stops 999 kHz.
4. When the AM RF SG's output level is 30 ± 4 dB, check that the auto scan is stopped.

(In Test Mode Operation)

1. Same as in normal operation.
2. Press "SEEK +" button.
3. Same as in normal operation.
4. Same as in normal operation.

[MAIN BOARD] (Conductor Side)

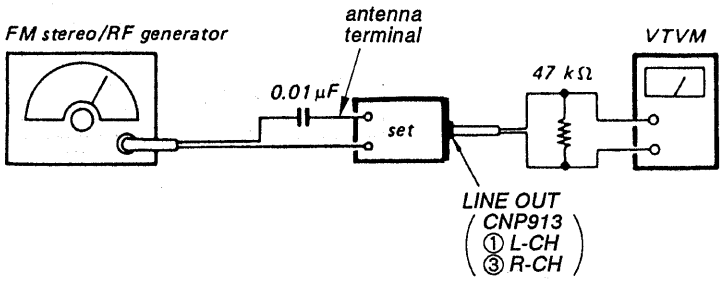




FM Stereo Separation Adjustment

Setting:

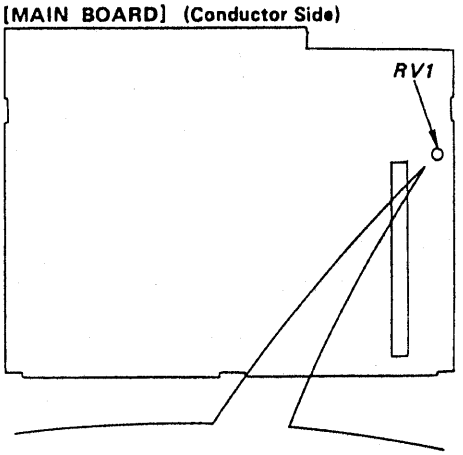
Band switch: FM
Frequency: 98.0 MHz

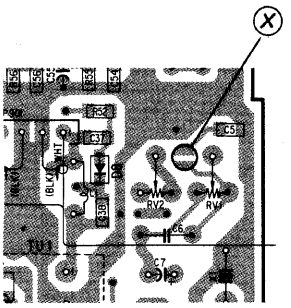


Carrier frequency: *98.0 MHz*
Output level: *70 dB (3.2 mV)*
Modulation: *main; 1 kHz 33.75 kHz deviation*
sub; 1 kHz, 33.75 kHz deviation.
19 kHz pilot; 7.5 kHz deviation

Adjustment Location:

[MAIN BOARD] (Conductor Side)





Procedure:

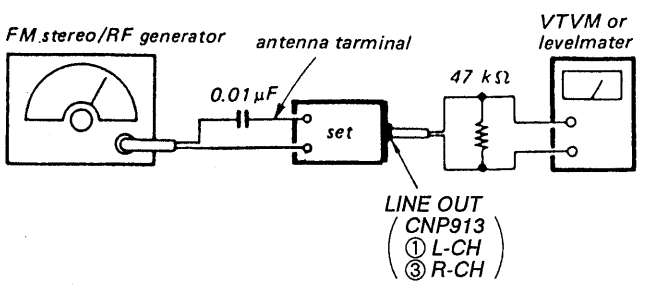
1. Adjust RV1 for a best stereo separation at a LINE OUT.
   More than 26 dB is good.

FM stereo signal generator output channel	VTVM connection	VTVM reading (dB)
L-CH	L-CH	Ⓐ
R-CH	L-CH	Ⓑ Adjust RV1 for minimum reading.
R-CH	R-CH	Ⓒ
L-CH	R-CH	Ⓓ Adjust RV1 for minimum reading.

   L-CH Stereo separation: Ⓐ – Ⓑ
   R-CH Stereo separation: Ⓒ – Ⓓ
   The separations of both channels shoul be equal.
2. If the result is not enough, make a solder bridge at Ⓧ position and step back to procedure 1.

FM Carrier Leakage

Setting:
Band switch: FM
Frequency: 98.0MHz

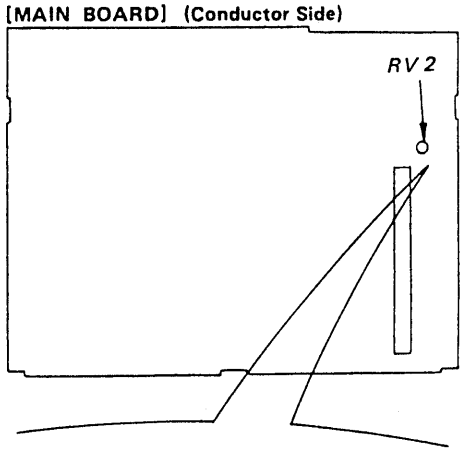


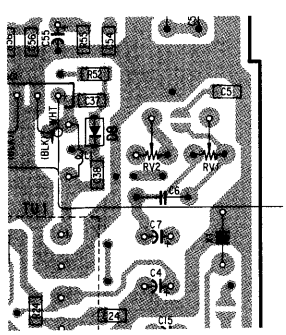
Carrier frequency: *98.0 MHz*
Output level: *70 dB (3.2 mV)*
Modulation: *main; 1 kHz 33.75 kHz deviation*
sub; 1 kHz, 33.75 kHz deviation.
19 kHz pilot; 7.5 kHz deviation

Procedure:
Adjust with RV2 so that the carrier leakage becomes to the best condition.

Adjustment Location:

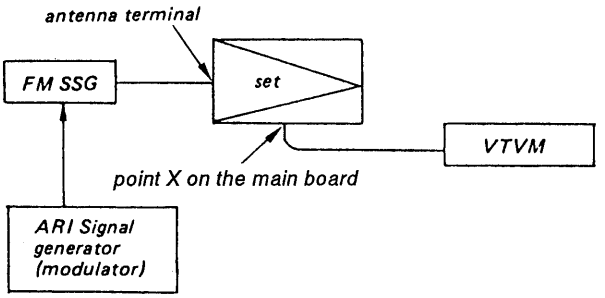
[MAIN BOARD] (Conductor Side)





ARI Level Adjustment (XR-7172 only)

Setting:
Band switch: FM

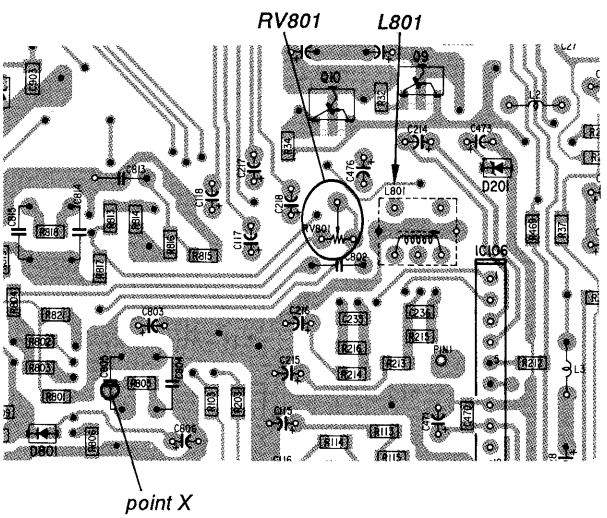


Frequency: *Initial frequency*
Modulation: *ARI carrier only*
Output level: *4 mVrms (composit)*

Procedure:
1. Adjust L801 so that the level of 125 Hz signal becomes maximum.
2. Adjust RV801 in the same way.

Specification: 1 Vrms or more

Adjustment Location:



SECTION 4
DIAGRAMS

4-1. IC301 (μPD75516G) FUNCTIONAL DESCRIPTION

IC301 (μPD75516G) DESCRIPTION

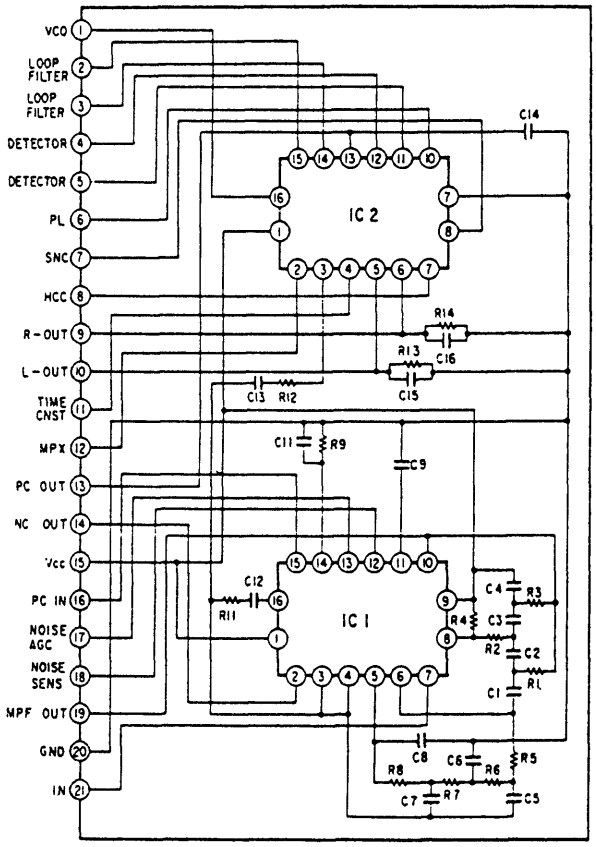
Pin No.	Name	I/O	Description
1	AO	I	Destination setting input.
2	AVREF	I	A/D converter reference voltage input.
3	VDD	—	Positive power input.
4	VDD	—	
5	LM+	O	Forward rotation motor control.
6	LM-	O	Reverse rotation motor control.
7	DPL	O	Direction plunger.
8	DPM	O	Capstan motor control.
9	POS3	I	Tape mechanical deck position switch.
10	POS2	I	
11	POS1	I	
12	POS0	I	
13	MUTE	O	Muting control.
14	COLOR	O	Color illumination switching control.
15	VOLCE	O	Electronic volume enable signal.
16	LCDCE	O	LCD driver enable signal.
17	DATA IN	I	Information input from PLL-IC.
18	DATA OUT	O	Serial data output.
19	CLK OUT	O	Serial transmission clock.
20	PLLCE	O	PLL-IC enable signal.
21	KI3	I	Key information input.
22	KI2	I	
23	KI1	I	
24	KI0	I	
25	KO7	O	Key-return signal source.
26	KO6	O	
27	KO5	O	
28	KO4	O	
29	KO3	O	
30	KO2	O	
31	KO1	O	
32	KO0	O	

Pin No.	Name	I／O	Description
33	GND	—	Ground.
34	SIG2	O	Audio-signal switching signal.
35	SIG1	O	
36	AUX-ON	O	AUX signal ON.
37	PPA MUTE	O	PW-AMP mute.
38	METAL	I／O	Metal select.
39	DOLBY	O	Dolby ON/OFF select.
40	DOLBY-C	O	Dolby B/C select. (H: B, L: C)
41	STEREO	I／O	Auto stereo/forced monochrome select.
42	PTUNER	O	Tuner power-antenna output.
43	ILL-ON	O	Illumination output.
44	POWER	O	System power output.
45	BEEP	O	Buzzer output signal (2KHz/1KHz).
46	DK	I	DK signal input.
47	SK	I	SK signal input.
48	BK	I	BK signal input.
49	REMCOM	I	Remote control input.
50	CD-DATA-IN	I	Auto changer information input.
51	—	—	—
52	CD-CLK-IN	I	CD data input clock.
53	BU-CHECK	I	Back-up check.
54	—	—	—
55	—	—	32.7 kHz.
56	—	—	Subsystem clock.
57	—	—	—
58	—	—	4.19 MHz.
59	—	—	Main system clock.
60	RESET	I	Reset input.
61	CD-DATA	O	CD data transmission data line.
62	CD-CLK	O	CD data transmission clock line.
63	DSPSEL	O	Display-select.
64	OUT-RUN	O	AUX-STOP signal.
65	CD-MUTE	I	CD mute request input.

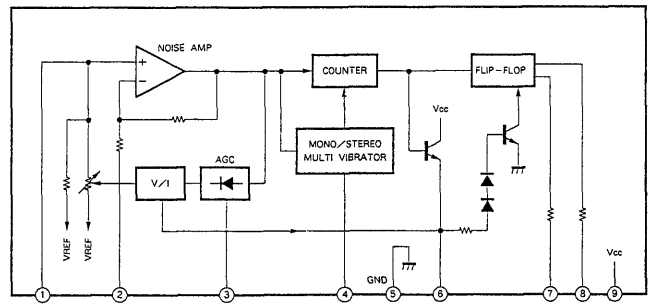
Pin No.	Name	I／O	Description
66	CD-CHECK	I	CD loaded/not loaded check.
67	AUX-MUTE	I	AUX mute request input.
68	REM-IN	I	AUX operation request input.
69	HANDLE	I	Handle switch input.
70	—	—	—
71	N/R	I	Tape-running direction input. (L: normal, R: reverse)
72	AMS/IN	I	Tape audio signal input.
73	—	—	—
74	ACC	I	Accessory input.
75	LINE-IN	I	Equalizer remote input.
76	REEL2	I	Feed reel input.
77	REEL1	I	Take-up reel input.
78	TEST	I	Test mode switch.
79	A2	I	Regions setting input.
80	A1	I	

• IC Block Diagrams

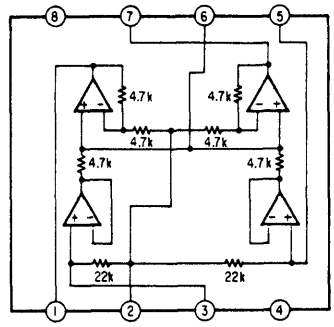
IC1 STK-3400



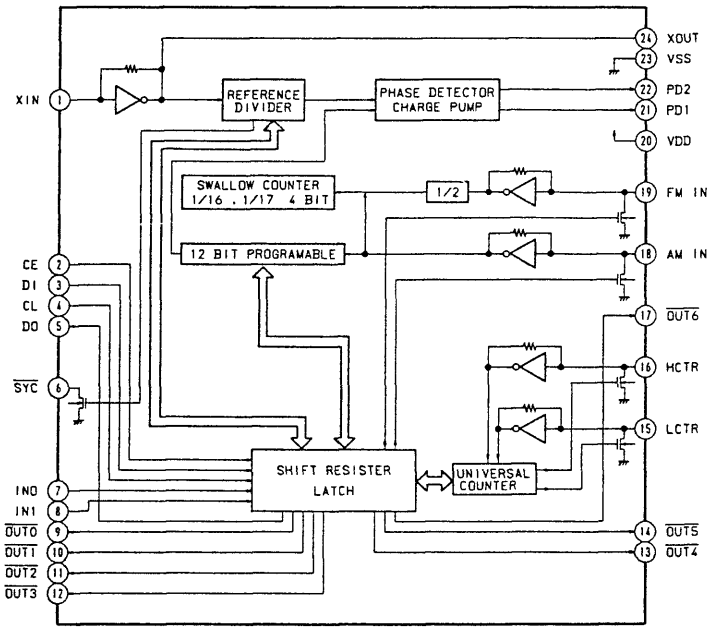
IC51 LA1060



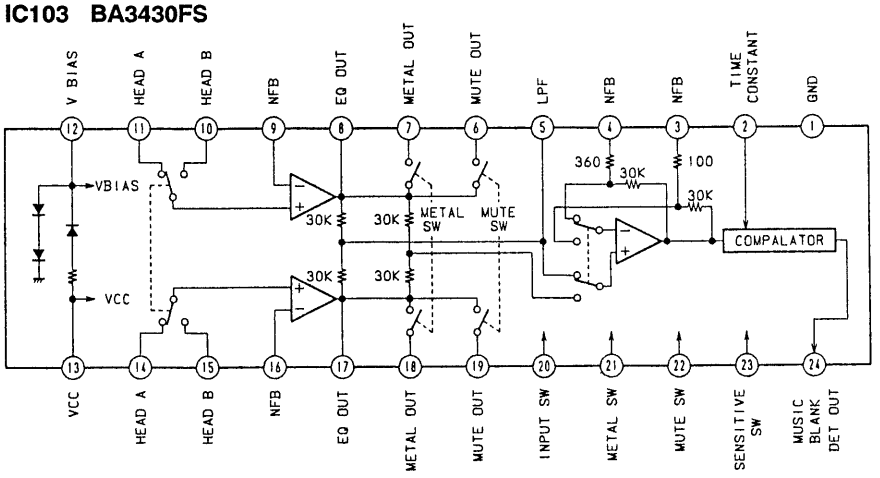
IC102 M5280FP



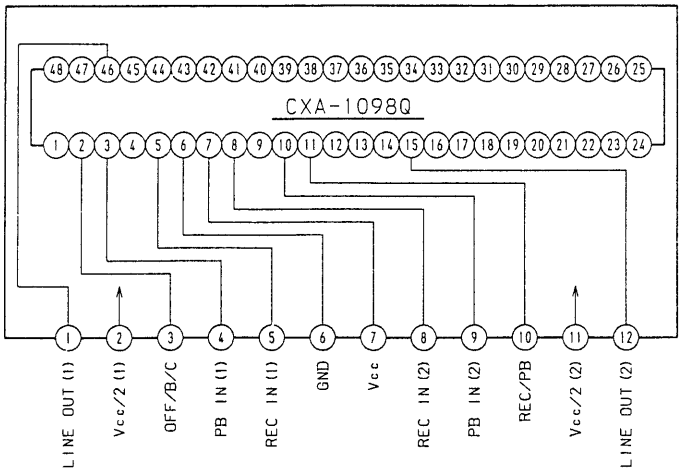
IC2 LC7218M



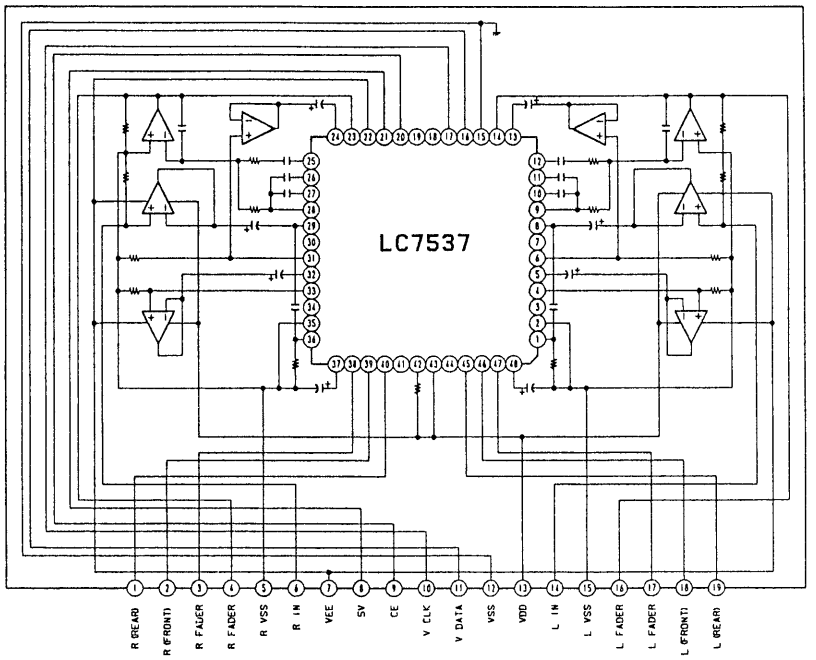
IC103 BA3430FS



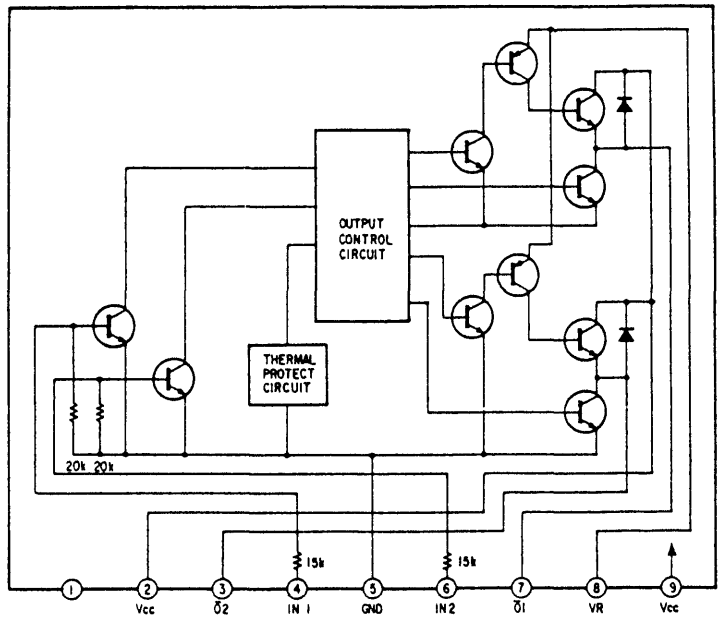
IC105 NR9561



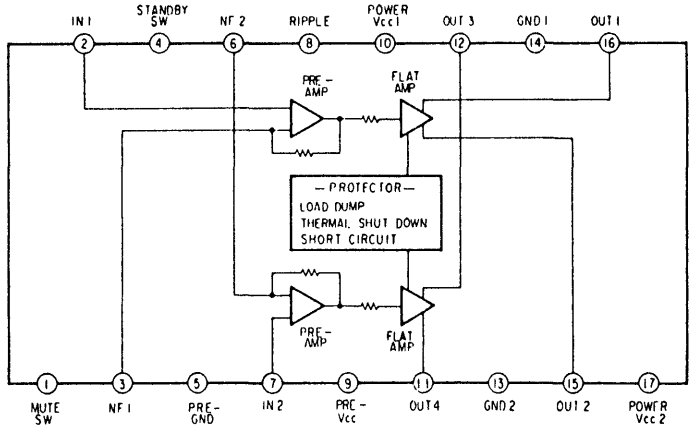
IC106 EV1200



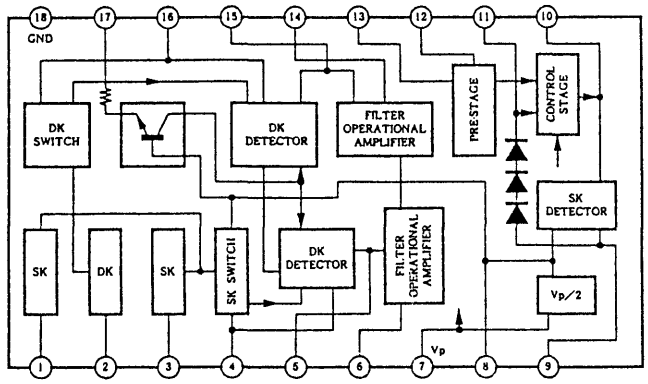
IC401 M54644BL

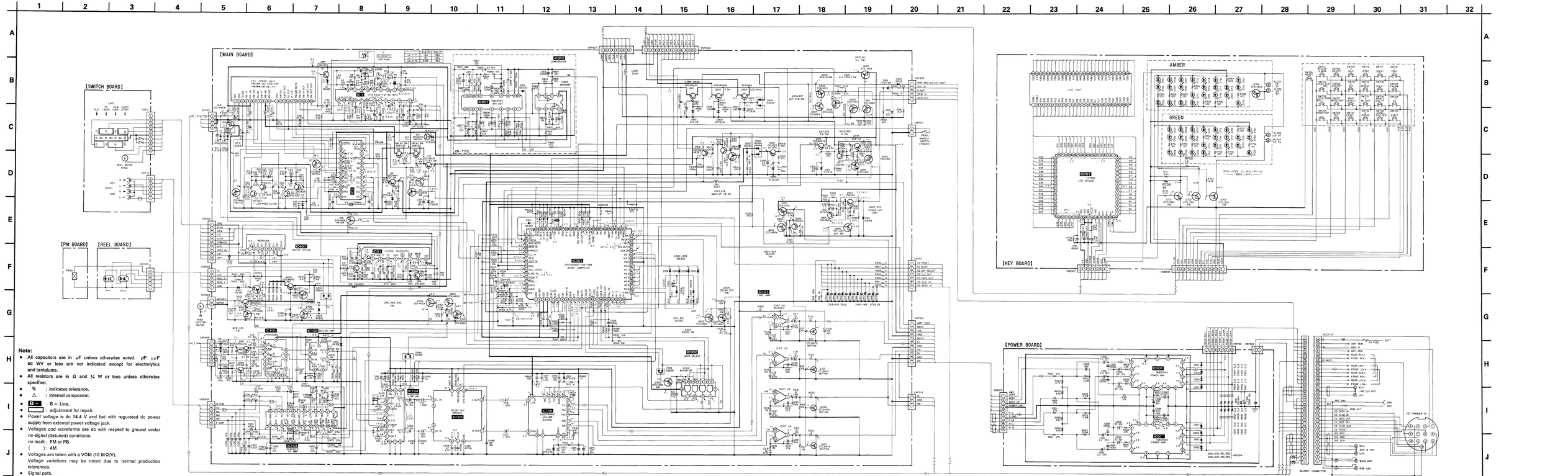


IC501, 601 TA8205HA



IC801 TDA1579





Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼ W or less unless otherwise specified.
- % : indicates tolerance.
- △ : internal component.
- B+ : B + Line.
- : adjustment for repair.
- Power voltage is dc 14.4 V and fed with regurated dc power supply from external power voltage jack.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM or PB
  ( ) : AM
- Voltages are taken with a VOM (10 MΩ/V). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : FM ⇨ : PB

4-3. PRINTED WIRING BOARDS

• Semiconductor Lead Layouts

BA14741F
BU4081BF

(TOP VIEW)

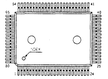
M54644BL

TA8215H

BA3430FS
LC7218M

(TOP VIEW)

μ PD75516GF-274-3B9



MARKING SIDE VIEW

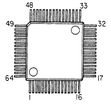
BU4052BF
μ PD4053BG

(TOP VIEW)

DTA114EK
DTA144EK
DTC114EK
DTC144EK
DTC314TKH04
DTD113EK
2SA1162
2SC1623

LA1060

LC7582

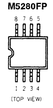


2SB1115A
2SD1615A-GP

2SD1760-F5-Q

1. BASE
2. COLLECTOR
3. EMITTER
4. COLLECTOR

M5280FP

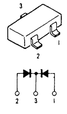


(TOP VIEW)

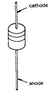
DSA3A4

DTZ11B
DTZ4.7C
DTZ5.6B
DTZ6.2B
DTZ9.1B
1SS318
1SS332

MA152WK



RB-100A
1SR139-400



1S2836

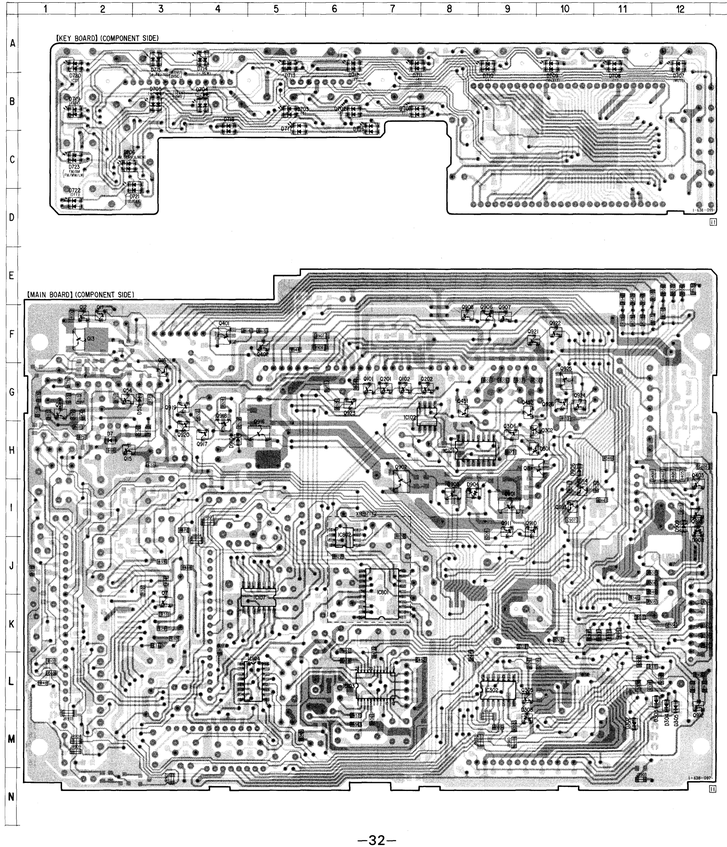
CL-155Y/PG-CD

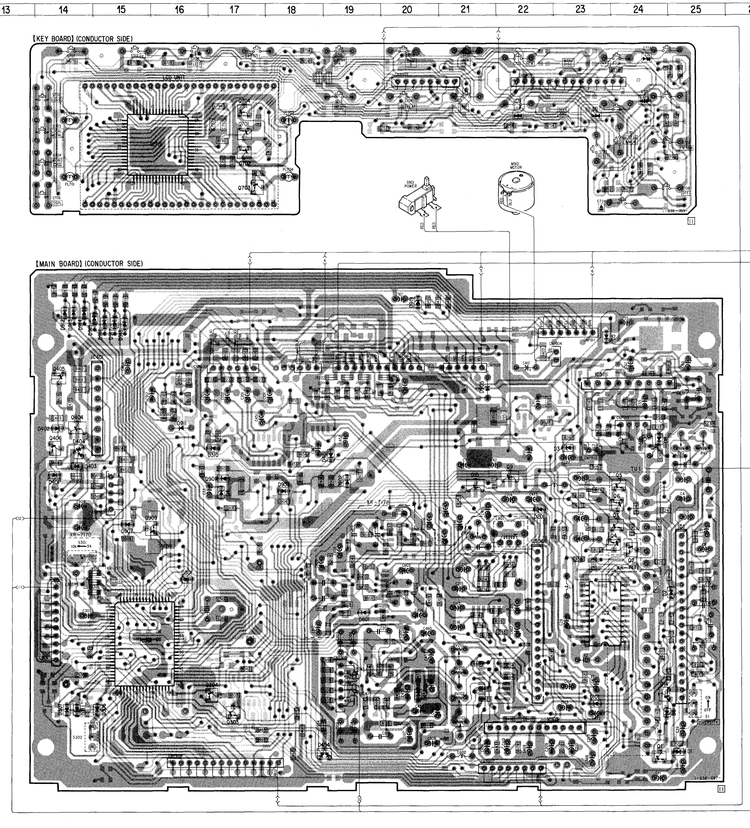
• Semiconductor Location

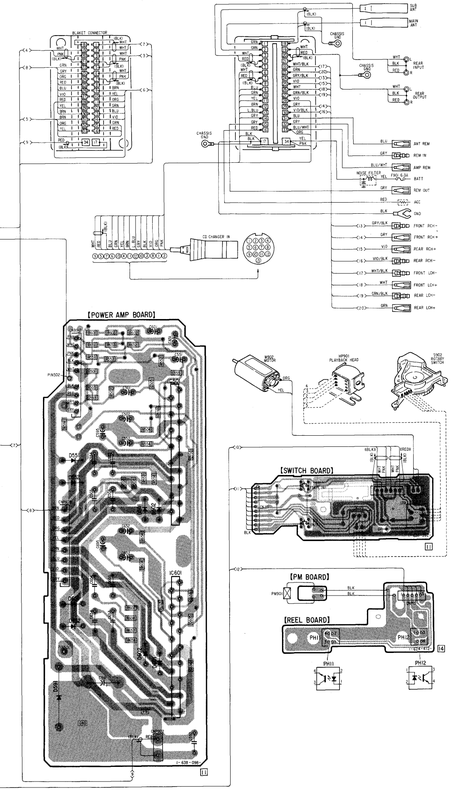
Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D1	M-25	D720	A-1	Q10	I-21
D2	J-25	D721	C-3	Q11	F-2
D3	H-23	D722	D-1	Q12	F-2
D4	I-17	D723	C-1	Q13	F-2
D5	F-23	D801	K-19	Q14	L-24
D6	M-24	D901	H-17	Q15	K-2
D7	H-2	D902	I-19	Q16	G-3
D8	H-24	D903	I-18	Q51	G-1
D52	G-3	D904	I-8	Q54	G-2
D101	L-23	D905	G-21	Q101	G-7
D201	I-22	D906	H-10	Q102	G-7
D301	J-16	D907	I-15	Q201	G-7
D302	M-11	D908	I-12	Q202	G-8
D303	L-12	D909	I-12	Q301	H-9
D304	L-12	D910	H-4	Q302	H-9
D305	L-12	D911	H-16	Q303	M-17
D306	L-15	D912	F-14	Q304	L-17
D307	L-14	D913	F-14	Q305	L-9
D308	M-9	D914	F-14	Q306	H-9
D310	H-17	D915	F-15	Q401	F-4
D311	L-14	D916	F-15	Q402	F-5
D401	H-14	D917	F-15	Q403	I-12
D402	H-14	D918	F-15	Q404	H-14
D403	H-14	D919	E-20	Q405	G-14
D404	H-14			Q406	H-14
D451	H-19	IC1	J-25	Q451	G-8
D452	L-20	IC2	K-23	Q452	G-9
D454	M-19	IC51	G-24	Q701	C-17
D501	I-29	IC101	H-8	Q702	C-17
D502	I-29	IC102	G-8	Q703	C-17
D551	I-27	IC103	L-7	Q704	B-17
D552	I-27	IC104	L-5	Q901	I-9
D591	M-27	IC105	M-22	Q902	I-7
D601	L-29	IC106	J-22	Q903	I-9
D602	L-28	IC107	K-5	Q906	F-9
D651	K-27	IC301	K-15	Q907	F-9
D652	K-27	IC302	L-9	Q908	F-8
D701	B-7	IC401	G-15	Q909	I-16
D702	B-6	IC501	H-29	Q910	I-9
D703	B-5	IC601	K-29	Q911	I-9
D704	B-4	IC701	C-16	Q912	L-12
D705	B-3	IC801	J-7	Q913	I-10
D706	C-2	IC802	J-6	Q914	I-10
D707	A-12			Q915	I-12
D708	A-11	PH11	L-32	Q916	H-5
D709	A-10	PH12	L-33	Q917	H-4
D710	A-9			Q918	H-4
D711	A-7	Q1	M-24	Q919	G-3
D712	A-6	Q2	J-24	Q920	H-3
D713	A-5	Q3	I-24	Q921	F-9
D714	A-4	Q4	J-24	Q922	F-10
D715	A-3	Q5	I-24	Q923	G-6
D716	B-7	Q6	I-24	Q924	G-10
D717	B-5	Q7	K-3	Q925	G-10
D718	B-4	Q8	H-10	Q926	G-10
D719	B-1	Q9	H-22		

Note:

- ○——— : parts extracted from the component side.
- ● : Through hole.
- ▒▒▒ : Pattern on the side which is seen.
- ▒▒▒ : Pattern of the rear side.





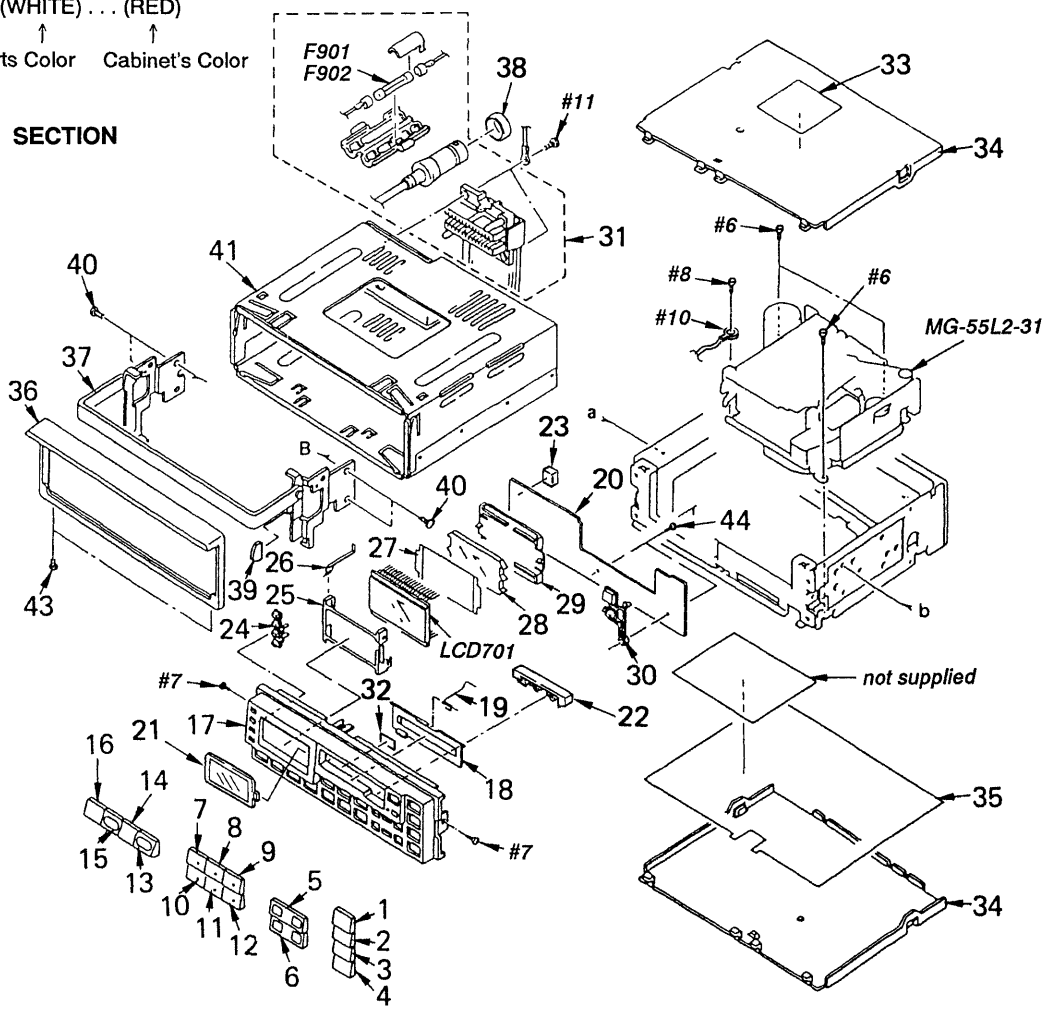


SECTION 5
EXPLODED VIEWS

NOTE:

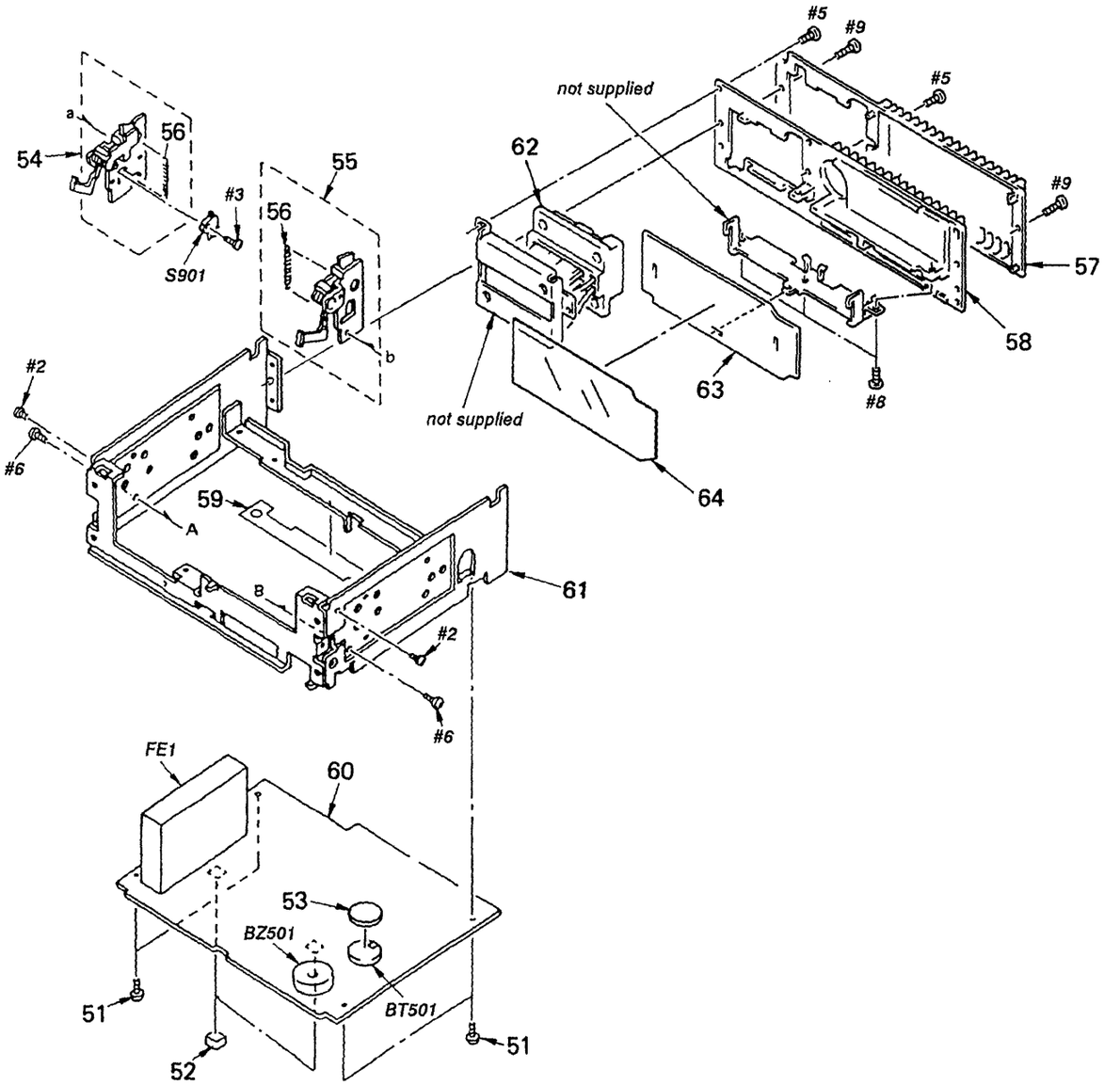
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ Parts Color ↑ Cabinet's Color
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list is given in the last of this parts list.

(1) FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
1	3-366-642-01	BUTTON (RU) (OFF)	
2	3-366-643-01	BUTTON (RM) (FM/AM) (XR-7170/7172)	
	3-366-643-11	BUTTON (RM) (FM/MW/LW) (XR-7171)	
3	3-366-643-21	BUTTON (RM) (TAPE, PD)	
4	3-366-644-01	BUTTON (RD) (CD)	
5	3-366-645-01	BUTTON (SEEK/AMS)	
6	3-366-641-01	BUTTON (MANU/DISC)	
7	3-366-647-01	BUTTON (PRESET/L) (1)	
8	3-366-648-01	BUTTON (PRESET/M) (2)	
9	3-366-649-01	BUTTON (PRESET/R) (3)	
10	3-366-647-11	BUTTON (PRESET/L) (4)	
11	3-366-648-11	BUTTON (PRESET/M) (5)	
12	3-366-649-11	BUTTON (PRESET/R) (6)	
13	3-366-634-01	BUTTON (LEVEL: +)	
14	3-366-635-01	BUTTON (SELECT)	
15	3-366-636-01	BUTTON (LEVEL: -)	
16	3-366-650-01	BUTTON (MUTE) (XR-7170/7171)	
	3-366-650-11	BUTTON (SDK) (XR-7172)	
17	3-366-632-01	PANEL, FRONT	
18	3-358-631-11	DOOR, CASSETTE (XR-7170)	
18	3-358-631-21	DOOR, CASSETTE (XR-7171)	
	3-358-631-31	DOOR, CASSETTE (XR-7172)	
19	3-349-454-01	SPRING (C DOOR), TORSION	
20	* A-3273-334-A	MOUNTED PCB (B), KEY	
21	3-366-638-01	PLATE, INDICATION	
22	3-366-639-01	PLATE (C DOOR), LIGHT GUIDE	
23	9-911-841-XX	CUSHION, CASSETTE LID	
24	3-366-637-01	BUTTON (4 GANG) (W)	
25	3-357-091-01	PLATE (LCD), GROUND	
26	3-327-119-01	SPACER (A)	
27	3-349-440-01	SHEET (REFLECTOR)	
28	* 3-357-086-01	PLATE (LCD), LIGHT GUIDE	
29	* 3-357-087-01	HOLDER (LCD)	
30	3-366-646-01	BUTTON (EJECT)	
31	1-590-471-11	CORD (WITH CONNECTOR)	
32	3-831-441-XX	SPACER	
33	* 3-368-303-01	LABEL, MODEL NUMBER (AE) (XR-7171)	
	3-368-302-01	LABEL, MODEL NUMBER (AE) (XR-7170)	
	* 3-368-304-01	LABEL, MODEL NUMBER (AE6) (XR-7172)	
34	* 3-353-402-11	COVER	
35	* 3-344-560-71	INSULATOR (3)	
36	3-344-564-01	FRAME, ORNAMENTAL	
37	X-3363-086-1	HANDLE ASSY	
38	3-566-347-00	COVER (A), CONNECTOR	
39	3-344-526-02	BUTTON (RELEASE)	
40	3-344-561-21	SCREW (M4X4)	
41	* X-3344-509-3	BRACKET ASSY	
F901	1-532-508-11	FUSE 8A	
F902	1-532-409-11	FUSE 0.315A	
LCD701	1-808-773-11	DISPLAY PANEL, LIQUID CRYSTAL	

(2) CHASSIS SECTION

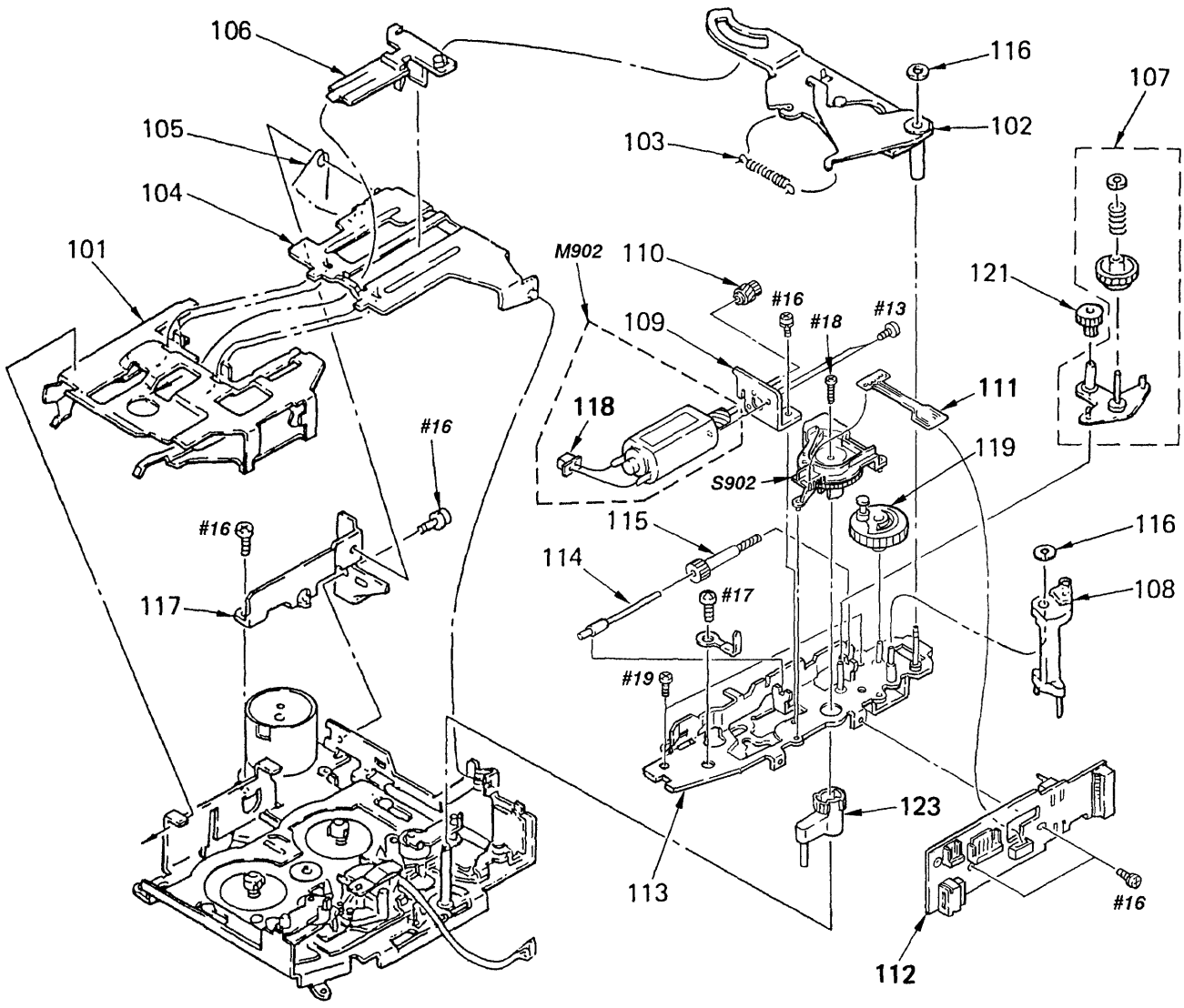


Ref. No.	Part No.	Description	Remark
51	3-344-501-11	SCREW (+ PTT 3X8), GROUND POINT	
52	9-911-841-XX	CUSHION, CASSETTE LID	
53	* 3-896-343-01	SHEET, INSULATING	
54	X-3344-502-1	LOCK ASSY (LEFT)	
55	X-3344-503-1	LOCK ASSY (RIGHT)	
56	3-645-189-00	SPRING, TENSION	
57	* 3-357-097-01	COVER	
58	* 3-357-093-01	HEAT SINK	
59	* 3-353-458-01	INSULATOR (CHASSIS)	

Ref. No.	Part No.	Description	Remark
60	* A-3222-220-A	MAIN BOARD, COMPLETE (XR-7170)	
	* A-3222-231-A	MAIN BOARD, COMPLETE (XR-7171)	
	* A-3222-228-A	MAIN BOARD, COMPLETE (XR-7172)	
61	* X-3362-710-1	CHASSIS ASSY	
62	1-590-470-11	CORD (WITH CONNECTOR)	
63	* 1-638-098-11	POWER BOARD	
64	* 3-358-653-01	SHEET (POWER), INSULATING	
S901	1-570-771-11	SWITCH	

SEE ADDITIONAL INFORMATION

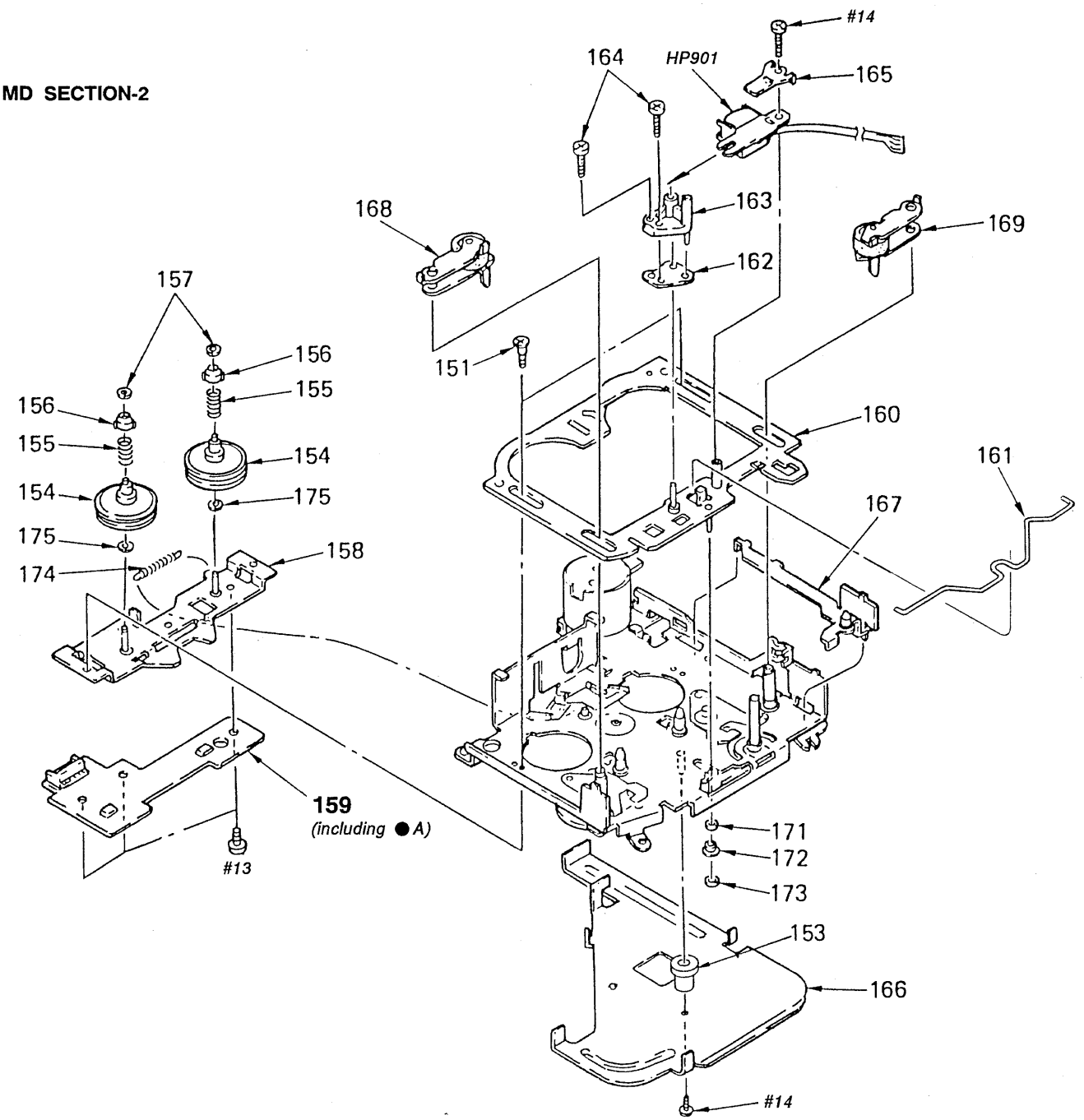
(3) MD SECTION-1



No.	Part No.	Description	Remarks
101	*3-344-103-21	HOUSING, CASSETTE	
102	*X-3344-121-1	ARM ASSY, SUCTION	
103	3-344-216-01	SPRING (SUCTION ARM), TENSION	
104	*X-3362-262-1	HANGER(F) ASSY, HOUSING	
105	3-344-113-01	SPRING	
106	*3-344-118-01	CATCHER	
107	A-3239-954-A	GEAR ASSY, DRIVING ARM	
108	*3-344-260-01	ARM, REVERSE	
109	*X-3344-142-2	BRACKET ASSY, MOTOR	
110	3-344-281-01	GEAR (A), DRIVING	
111	*1-638-563-11	SWITCH FLEXIBLE BOARD	
112	*1-638-562-11	SWITCH BOARD	
113	*X-3362-260-3	CHASSIS(F) ASSY, MCU	

No.	Part No.	Description	Remarks
114	*3-344-157-03	SHAFT, DRIVING GEAR (B)	
115	3-344-156-01	GEAR (B), DRIVING	
116	3-344-222-01	WASHER	
117	*3-344-112-13	BRACKET, HANGER	
118	*1-563-470-11	HOUSING, CONNECTOR 2P	
119	X-3344-119-1	GEAR ASSY, LOADING CAM	
121	3-344-108-01	GEAR (A), FRICTION	
123	X-3344-117-3	ARM ASSY, MODE	
M902	A-3239-956-B	MOTOR SUB ASSY, L	
S902	1-572-397-11	SWITCH, ROTARY SLIDE	

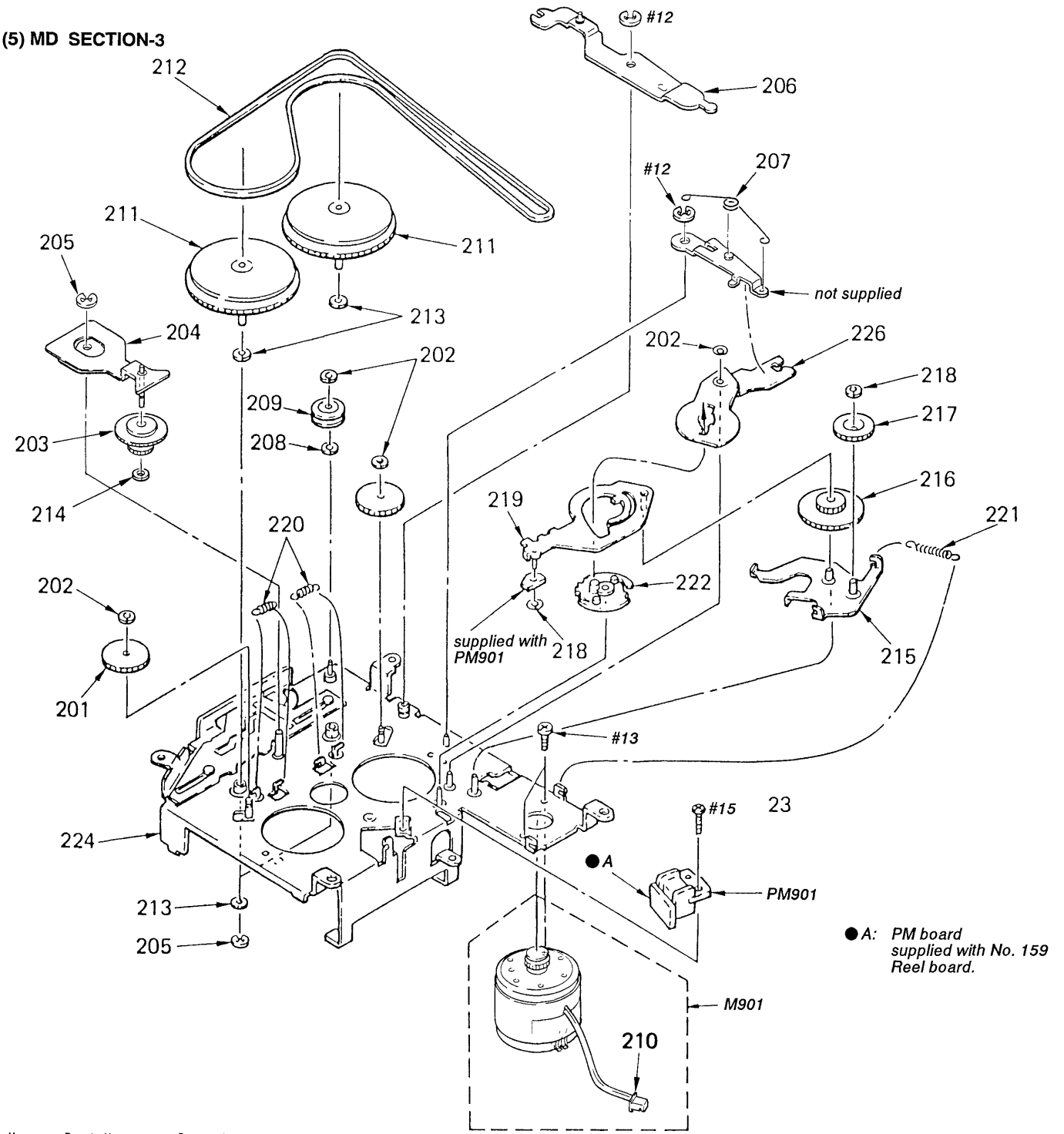
(4) MD SECTION-2



No.	Part No.	Description	Remarks
151	3-344-110-01	SCREW (HB), STEP	
153	3-344-251-01	RETAINER, MODE LEVER	
154	X-3362-213-1	TABLE(L) ASSY, REEL	
155	3-344-143-01	SPRING (BT), COMPRESSION	
156	3-365-725-01	CAP(F), REEL	
157	3-364-151-01	WASHER	
158	*X-3344-105-2	BRACKET ASSY, REEL TABLE	
159	*1-624-412-14	REEL BOARD	
160	*X-3362-261-1	BASE ASSY(R), HEAD	
161	3-363-909-01	SPRING (RATTLE), PINCH PRESS	
162	3-344-128-03	SEAM, DAH	
163	3-344-127-02	ARM, DAH	
164	3-364-122-01	SCREW, (M1.4X5.5), ADJ	

No.	Part No.	Description	Remarks
165	3-344-130-01	RETAINER, HEAD	
166	*3-344-220-03	COVER, MD	
167	*X-3344-118-3	LEVER ASSY, RVS CONVERSION	
168	X-3344-116-6	ARM (F) ASSY, PINCH	
169	X-3344-115-5	ARM (R) ASSY, PINCH	
171	3-344-117-01	ROLLER (B), H/B	
172	3-344-116-02	ROLLER (A), H/B	
173	3-344-222-01	WASHER	
174	3-344-217-02	SPRING (CAM LOCK LEVER), TENTION	
175	3-701-437-01	POLY-WASHER ϕ1.2	
HP901	1-543-726-11	HEAD, MAGNETIC (PLAYBACK)	

(5) MD SECTION-3



● A: PM board supplied with No. 159 Reel board.

No.	Part No.	Description	Remarks
201	3-344-104-01	GEAR, PLAY	
202	3-344-222-01	WASHER	
203	X-3344-102-6	GEAR ASSY, FR	
204	*X-3344-101-5	ARM ASSY, FR	
205	3-590-768-00	RING (A), E	
206	*X-3344-139-1	ARM ASSY, POWER	
207	3-344-279-01	SPRING, BUFFER	
208	3-701-436-01	WASHER, 1.6	
209	3-344-263-01	PULLEY (ASSY), MIDWAY	
210	*1-563-470-11	HOUSING, CONNECTOR 2P	
211	3-344-261-01	FLYWHEEL (M)	
212	3-344-115-01	BELT	
213	3-590-770-01	POLY-SLIDER (A)	
214	3-344-224-01	WASHER	
215	*X-3344-106-1	LEVER ASSY, RVS GEAR (B)	

No.	Part No.	Description	Remarks
216	3-344-146-01	GEAR (B), RVS	
217	3-344-147-01	GEAR (A), RVS	
218	3-344-223-01	WASHER	
219	X-3344-107-2	LEVER ASSY, CAM LOCK	
220	3-344-218-02	SPRING (PLAY ARM), TENSION	
221	3-344-215-01	SPRING, TENSION	
222	3-344-119-02	GEAR, RVS CAM	
224	*X-3363-049-1	CHASSIS (L2) ASSY, MECHANICAL	
226	*X-3344-114-2	LEVER ASSY, RVS	
M901	X-3344-136-1	MOTOR SUB ASSY, CAPSTAN	
PM901	1-454-461-12	SOLENOID, PLUNGER	

KEY

SECTION 6
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F: nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u: μ, for example:
  uA...: μA..., uPA...: μPA...,
  uPB...: μPB..., uPC...: μPC...,
  uPD...: μPD...
- CAPACITORS
  uF: μF
- COILS
  uH: μH

When including parts by reference number, please include the board name.

Ref. No.	Part No.	Description	Remark
*	A-3273-334-A	KEY (B) BOARD, COMPLETE	
		**********	
	3-349-440-01	SHEET (REFLECTOR)	
*	3-357-086-01	PLATE (LCD), LIGHT GUIDE	
*	3-357-087-01	HOLDER (LCD)	
	3-357-091-01	PLATE (LCD), GROUND	
	7-623-507-01	LUG, 2.6	
		< CAPACITOR >	
C791	1-163-007-11	CERAMIC CHIP 680PF 10%	50V
C792	1-162-637-11	CERAMIC CHIP 0.47uF	16V
C793	1-162-637-11	CERAMIC CHIP 0.47uF	16V
C794	1-162-637-11	CERAMIC CHIP 0.47uF	16V
		< DIODE >	
D701	8-719-987-45	TRANSISTOR CL-155Y/PG-CD	
D702	8-719-987-45	TRANSISTOR CL-155Y/PG-CD	
D703	8-719-987-45	TRANSISTOR CL-155Y/PG-CD	
D704	8-719-987-45	TRANSISTOR CL-155Y/PG-CD	
D705	8-719-987-45	TRANSISTOR CL-155Y/PG-CD	
D706	8-719-987-45	TRANSISTOR CL-155Y/PG-CD	
D707	8-719-987-45	TRANSISTOR CL-155Y/PG-CD	
D708	8-719-987-45	TRANSISTOR CL-155Y/PG-CD	
D709	8-719-987-45	TRANSISTOR CL-155Y/PG-CD	
D710	8-719-987-45	TRANSISTOR CL-155Y/PG-CD	
D711	8-719-987-45	TRANSISTOR CL-155Y/PG-CD	
D712	8-719-987-45	TRANSISTOR CL-155Y/PG-CD	
D713	8-719-987-45	TRANSISTOR CL-155Y/PG-CD	
D714	8-719-987-45	TRANSISTOR CL-155Y/PG-CD	
D715	8-719-987-45	TRANSISTOR CL-155Y/PG-CD	
D716	8-719-987-45	TRANSISTOR CL-155Y/PG-CD	
D717	8-719-987-45	TRANSISTOR CL-155Y/PG-CD	
D718	8-719-987-45	TRANSISTOR CL-155Y/PG-CD	
D719	8-719-987-45	TRANSISTOR CL-155Y/PG-CD	
D720	8-719-987-45	TRANSISTOR CL-155Y/PG-CD	
D721	8-719-987-45	TRANSISTOR CL-155Y/PG-CD	
D722	8-719-987-45	TRANSISTOR CL-155Y/PG-CD	
D723	8-719-987-45	TRANSISTOR CL-155Y/PG-CD	
		< IC >	
IC701	8-759-821-44	IC LC7582	
		< JUMPER RESISTOR >	
JR701	1-216-296-00	METAL CHIP 0 5%	1/8W
JR702	1-216-296-00	METAL CHIP 0 5%	1/8W
		< DISPLAY PANEL >	
LCD701	1-808-773-11	DISPLAY PANEL, LIQUID CRYSTAL	
		< PILOT LAMP >	
PL701	1-518-648-11	LAMP, PILOT	
PL702	1-518-648-11	LAMP, PILOT	
PL703	1-518-646-11	LAMP, PILOT	
PL704	1-518-646-11	LAMP, PILOT	
		< TRANSISTOR >	
Q701	8-729-904-66	TRANSISTOR DTD113EK	
Q702	8-729-904-66	TRANSISTOR DTD113EK	
Q703	8-729-904-66	TRANSISTOR DTD113EK	
Q704	8-729-904-66	TRANSISTOR DTD113EK	
		< RESISTOR >	
R701	1-216-027-00	METAL CHIP 120 5%	1/10W
R702	1-216-027-00	METAL CHIP 120 5%	1/10W
R703	1-216-027-00	METAL CHIP 120 5%	1/10W
R704	1-216-027-00	METAL CHIP 120 5%	1/10W

KEY MAIN

Ref.No.	Part No.	Description			Remark
R705	1-216-027-00	METAL CHIP	120	5% 1/10W	
R706	1-216-027-00	METAL CHIP	120	5% 1/10W	
R707	1-216-034-00	METAL CHIP	240	5% 1/10W	
R708	1-216-027-00	METAL CHIP	120	5% 1/10W	
R709	1-216-049-00	METAL CHIP	1K	5% 1/10W	
R710	1-216-057-00	METAL CHIP	2.2K	5% 1/10W	
R711	1-216-057-00	METAL CHIP	2.2K	5% 1/10W	
R713	1-216-065-00	METAL CHIP	4.7K	5% 1/10W	
R751	1-216-027-00	METAL CHIP	120	5% 1/10W	
R752	1-216-027-00	METAL CHIP	120	5% 1/10W	
R753	1-216-027-00	METAL CHIP	120	5% 1/10W	
R754	1-216-027-00	METAL CHIP	120	5% 1/10W	
R755	1-216-027-00	METAL CHIP	120	5% 1/10W	
R756	1-216-027-00	METAL CHIP	120	5% 1/10W	
R757	1-216-034-00	METAL CHIP	240	5% 1/10W	
R758	1-216-027-00	METAL CHIP	120	5% 1/10W	
R759	1-216-049-00	METAL CHIP	1K	5% 1/10W	
R791	1-216-113-00	METAL CHIP	470K	5% 1/10W	
R792	1-216-091-00	METAL CHIP	56K	5% 1/10W	
		< SWITCH >			
S701	1-554-813-41	SWITCH, KEY BOARD	(M. SCAN/A. MEM)		
S702	1-572-683-21	SWITCH, KEY BOARD	(LOUD)		
S703	1-572-683-21	SWITCH, KEY BOARD	(LOCAL/METAL)		
S704	1-572-683-21	SWITCH, KEY BOARD	(MONO/DOLBY)		
S705	1-554-813-41	SWITCH, KEY BOARD	(SELECT)		
S706	1-572-683-21	SWITCH, KEY BOARD	(DSPL)		
S707	1-554-813-41	SWITCH, KEY BOARD	(MUTE or SDK)		
S708	1-554-813-41	SWITCH, KEY BOARD	(OFF)		
S709	1-554-813-41	SWITCH, KEY BOARD	(SHUF/5)		
S710	1-554-813-41	SWITCH, KEY BOARD	(ATA/6)		
S711	1-554-813-41	SWITCH, KEY BOARD	(+)		
S712	1-554-813-41	SWITCH, KEY BOARD	(-)		
S713	1-554-813-41	SWITCH, KEY BOARD	(INTRO/1)		
S714	1-554-813-41	SWITCH, KEY BOARD	(REPEAT/2)		
S715	1-554-813-41	SWITCH, KEY BOARD	(BL. SKIP/3)		
S716	1-554-813-41	SWITCH, KEY BOARD	(D. SCAN/4)		
S717	1-554-813-41	SWITCH, KEY BOARD	(SEEK +/AMS ▶▶I)		
S718	1-554-813-41	SWITCH, KEY BOARD	(SEEK -/AMS I◀◀)		
S719	1-554-813-41	SWITCH, KEY BOARD	(MANU +/DISC FF)		
S720	1-554-813-41	SWITCH, KEY BOARD	(MANU -/DISC REW)		
S721	1-554-813-41	SWITCH, KEY BOARD	(TAPE/ ◀I▶)		
S722	1-554-813-41	SWITCH, KEY BOARD	(FM/AM or FM/MW/LW)		
S723	1-554-813-41	SWITCH, KEY BOARD	(CD/ ▶II)		
S724	1-554-813-41	SWITCH, KEY BOARD	(▲)		
S725	1-554-813-41	SWITCH, KEY BOARD	(RESET)		

Ref.No.	Part No.	Description			Remark
	* A-3222-220-A	MAIN BOARD, COMPLETE (XR-7170)			
		**********			
	* A-3222-228-A	MAIN BOARD, COMPLETE (XR-7172)			
		**********			
	* A-3222-231-A	MAIN BOARD, COMPLETE (XR-7171)			
		**********			
	* 3-896-343-01	SHEET, INSULATING			
		< BATTERY >			
BT901	1-528-225-11	BATTERY, LITHIUM			
		< CAPACITOR >			
C1	1-124-229-00	ELECT	33uF	20% 10V	
C2	1-164-232-11	CERAMIC CHIP	0.01uF	50V	
C3	1-164-232-11	CERAMIC CHIP	0.01uF	50V	
C4	1-126-161-11	ELECT	2.2uF	20% 35V	
C5	1-163-001-11	CERAMIC CHIP	220PF	10% 50V	
C6	1-130-473-00	MYLAR	0.0015uF	5% 50V	
C7	1-126-288-11	ELECT	4.7uF	20% 16V	
C8	1-126-301-11	ELECT	1uF	20% 50V	
C9	1-124-464-11	ELECT	0.22uF	20% 50V	
C10	1-124-584-00	ELECT	100uF	20% 10V	
C11	1-126-153-11	ELECT	22uF	20% 6.3V	
C12	1-164-182-11	CERAMIC CHIP	0.0033uF	10% 50V	
C13	1-163-157-00	FILM	0.022uF	5% 50V	
C14	1-163-157-00	FILM	0.022uF	5% 50V	
C15	1-126-301-11	ELECT	1uF	20% 50V	
C16	1-136-158-00	FILM	0.027uF	5% 50V	
C17	1-136-158-00	FILM	0.027uF	5% 50V	
C18	1-163-037-11	CERAMIC CHIP	0.022uF	10% 25V	
C19	1-163-037-11	CERAMIC CHIP	0.022uF	10% 25V	
C20	1-164-232-11	CERAMIC CHIP	0.01uF	50V	
C21	1-163-157-00	FILM	0.022uF	5% 50V	
C22	1-126-162-11	ELECT	3.3uF	20% 50V	
C23	1-126-162-11	ELECT	3.3uF	20% 50V	
C24	1-164-232-11	CERAMIC CHIP	0.01uF	50V	
C25	1-126-161-11	ELECT	2.2uF	20% 35V	
C26	1-136-165-00	FILM	0.1uF	5% 50V	
C27	1-124-584-00	ELECT	100uF	20% 10V	
C28	1-126-157-11	ELECT	10uF	20% 16V	
C29	1-163-037-11	CERAMIC CHIP	0.022uF	10% 25V	
C30	1-163-097-00	CERAMIC CHIP	15PF	5% 50V	
C31	1-163-097-00	CERAMIC CHIP	15PF	5% 50V	
C32	1-163-037-11	CERAMIC CHIP	0.022uF	10% 25V	
C33	1-124-229-00	ELECT	33uF	20% 10V	
C35	1-124-242-00	ELECT	33uF	20% 25V	
C36	1-163-009-11	CERAMIC CHIP	0.001uF	10% 50V	
C37	1-163-009-11	CERAMIC CHIP	0.001uF	10% 50V	
C38	1-163-009-11	CERAMIC CHIP	0.001uF	10% 50V	

MAIN

Ref. No.	Part No.	Description			Remark
C39	1-126-157-11	ELECT	10uF	20%	16V
C42	1-124-229-00	ELECT	33uF	20%	10V
C51	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C52	1-130-475-00	MYLAR	0.0022uF	5%	50V
C53	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C54	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C55	1-126-157-11	ELECT	10uF	20%	16V
C56	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C56	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C58	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C59	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C60	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C90	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C101	1-126-288-11	ELECT	4.7uF	20%	16V
C102	1-126-288-11	ELECT	4.7uF	20%	16V
C103	1-130-467-00	MYLAR	470PF	5%	50V
C104	1-130-467-00	MYLAR	470PF	5%	50V
C105	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C106	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C107	1-126-154-11	ELECT	47uF	20%	6.3V
C108	1-136-153-00	FILM	0.01uF	5%	50V
C109	1-126-157-11	ELECT	10uF	20%	16V
C110	1-126-301-11	ELECT	1uF	20%	50V
C113	1-126-301-11	ELECT	1uF	20%	50V
C114	1-126-157-11	ELECT	10uF	20%	16V
C115	1-126-153-11	ELECT	22uF	20%	6.3V
C116	1-126-153-11	ELECT	22uF	20%	6.3V
C117	1-126-157-11	ELECT	10uF	20%	16V
C118	1-126-157-11	ELECT	10uF	20%	16V
C121	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C122	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C135	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C136	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C201	1-126-288-11	ELECT	4.7uF	20%	16V
C202	1-126-288-11	ELECT	4.7uF	20%	16V
C203	1-130-467-00	MYLAR	470PF	5%	50V
C204	1-130-467-00	MYLAR	470PF	5%	50V
C205	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C206	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C207	1-126-154-11	ELECT	47uF	20%	6.3V
C208	1-136-153-00	FILM	0.01uF	5%	50V
C209	1-126-157-11	ELECT	10uF	20%	16V
C210	1-126-301-11	ELECT	1uF	20%	50V
C213	1-126-301-11	ELECT	1uF	20%	50V
C214	1-126-157-11	ELECT	10uF	20%	16V
C215	1-126-153-11	ELECT	22uF	20%	6.3V
C216	1-126-153-11	ELECT	22uF	20%	6.3V
C217	1-126-157-11	ELECT	10uF	20%	16V
C218	1-126-157-11	ELECT	10uF	20%	16V

Ref. No.	Part No.	Description			Remark
C221	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C222	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C235	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C236	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C301	1-163-105-00	CERAMIC CHIP	33PF	5%	50V
C302	1-163-105-00	CERAMIC CHIP	33PF	5%	50V
C303	1-131-377-00	TANTALUM	10uF	10%	10V
C304	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C305	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C307	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C308	1-126-157-11	ELECT	10uF	20%	16V
C401	1-126-935-11	ELECT	470uF	20%	16V
C403	1-163-081-00	CERAMIC CHIP	0.22uF		25V
C404	1-126-933-11	ELECT	100uF	20%	16V
C405	1-163-081-00	CERAMIC CHIP	0.22uF		25V
C451	1-124-584-00	ELECT	100uF	20%	10V
C452	1-124-584-00	ELECT	100uF	20%	10V
C453	1-124-584-00	ELECT	100uF	20%	10V
C454	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C455	1-124-584-00	ELECT	100uF	20%	10V
C456	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C457	1-126-157-11	ELECT	10uF	20%	16V
C458	1-126-157-11	ELECT	10uF	20%	16V
C459	1-124-464-11	ELECT	0.22uF	20%	50V
C460	1-126-162-11	ELECT	3.3uF	20%	50V
C461	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C462	1-124-229-00	ELECT	33uF	20%	10V
C463	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C467	1-124-229-00	ELECT	33uF	20%	10V
C468	1-126-154-11	ELECT	47uF	20%	6.3V
C469	1-124-229-00	ELECT	33uF	20%	10V
C470	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C471	1-124-229-00	ELECT	33uF	20%	10V
C472	1-124-584-00	ELECT	100uF	20%	10V
C473	1-124-584-00	ELECT	100uF	20%	10V
C474	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C475	1-124-584-00	ELECT	100uF	20%	10V
C476	1-124-229-00	ELECT	33uF	20%	10V
C477	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C482	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C483	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C486	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C801	1-163-111-00	CERAMIC CHIP	56PF	5%	50V (XR-7172)
C802	1-130-477-00	MYLAR	0.0033uF	5%	50V (XR-7172)
C803	1-126-288-11	ELECT	4.7uF	20%	16V (XR-7172)
C804	1-136-175-00	FILM	0.068uF	5%	50V (XR-7172)
C805	1-136-175-00	FILM	0.068uF	5%	50V (XR-7172)
C806	1-124-463-00	ELECT	0.1uF	20%	50V (XR-7172)
C807	1-124-463-00	ELECT	0.1uF	20%	50V (XR-7172)

MAIN

Ref. No.	Part No.	Description	Remark
C808	1-163-037-11	CERAMIC CHIP 0.022uF 10% 25V	(XR-7172)
C809	1-124-229-00	ELECT 33uF 20% 10V	(XR-7172)
C810	1-136-161-00	FILM 0.047uF 5% 50V	(XR-7172)
C811	1-136-161-00	FILM 0.047uF 5% 50V	(XR-7172)
C812	1-124-463-00	ELECT 0.1uF 20% 50V	(XR-7172)
C813	1-163-157-00	FILM 0.022uF 5% 50V	(XR-7172)
C814	1-136-175-00	FILM 0.068uF 5% 50V	(XR-7172)
C815	1-136-175-00	FILM 0.068uF 5% 50V	(XR-7172)
C901	1-163-037-11	CERAMIC CHIP 0.022uF 10% 25V	
C902	1-163-081-00	CERAMIC CHIP 0.22uF 25V	
C903	1-163-081-00	CERAMIC CHIP 0.22uF 25V	
C904	1-163-081-00	CERAMIC CHIP 0.22uF 25V	
C905	1-163-037-11	CERAMIC CHIP 0.022uF 10% 25V	
C906	1-163-009-11	CERAMIC CHIP 0.001uF 10% 50V	
C907	1-163-081-00	CERAMIC CHIP 0.22uF 25V	
C908	1-124-229-00	ELECT 33uF 20% 10V	
C909	1-126-301-11	ELECT 1uF 20% 50V	
C910	1-124-229-00	ELECT 33uF 20% 10V	
C911	1-126-153-11	ELECT 22uF 20% 6.3V	
C912	1-126-153-11	ELECT 22uF 20% 6.3V	
C913	1-163-003-11	CERAMIC CHIP 330PF 10% 50V	
C914	1-163-003-11	CERAMIC CHIP 330PF 10% 50V	
C915	1-163-003-11	CERAMIC CHIP 330PF 10% 50V	
C916	1-163-003-11	CERAMIC CHIP 330PF 10% 50V	
C917	1-163-003-11	CERAMIC CHIP 330PF 10% 50V	
C918	1-163-003-11	CERAMIC CHIP 330PF 10% 50V	
C919	1-163-003-11	CERAMIC CHIP 330PF 10% 50V	
C920	1-126-157-11	ELECT 10uF 20% 16V	
C921	1-126-301-11	ELECT 1uF 20% 50V	

< CONNECTOR >

CNP901 *	1-506-986-11	PIN, CONNECTOR (PC BOARD) 4P	
CNP904 *	1-506-984-11	PIN, CONNECTOR (PC BOARD) 2P	
CNP905 *	1-506-988-11	PIN, CONNECTOR (PC BOARD) 6P	
CNP907 *	1-506-990-11	PIN, CONNECTOR (PC BOARD) 8P	
CNP908 *	1-566-011-11	PIN, CONNECTOR (PC BOARD) 14P	
CNP909 *	1-506-987-11	PIN, CONNECTOR (PC BOARD) 5P	
CNP910 *	1-506-984-31	PIN, CONNECTOR (PC BOARD) 2P	
CNP911 *	1-506-989-11	PIN, CONNECTOR (PC BOARD) 7P	
CNP912 *	1-506-993-11	PIN, CONNECTOR (PC BOARD) 11P	
CNP913 *	1-506-985-11	PIN, CONNECTOR (PC BOARD) 3P	

< DIODE >

D1	8-719-976-31	DIODE	1SS332
D2	8-719-976-31	DIODE	1SS332
D3	8-719-977-24	DIODE	DTZ9.1B
D4	8-719-977-03	DIODE	DTZ5.6B
D5	8-719-977-24	DIODE	DTZ9.1B
D6	8-719-976-95	DIODE	DTZ4.7B
D7	8-719-971-18	DIODE	1SS318
D8	8-719-971-18	DIODE	1SS318
D52	8-719-976-31	DIODE	1SS332
D101	8-719-976-95	DIODE	DTZ4.7B
D201	8-719-976-95	DIODE	DTZ4.7B
D301	8-719-976-31	DIODE	1SS332
D302	8-719-976-31	DIODE	1SS332
D303	8-719-976-31	DIODE	1SS332
D304	8-719-976-31	DIODE	1SS332
D305	8-719-976-31	DIODE	1SS332
D306	8-719-976-31	DIODE	1SS332
D307	8-719-976-31	DIODE	1SS332
D308	8-719-400-18	DIODE	MA152WK
D310	8-719-976-31	DIODE	1SS332
D311	8-719-976-31	DIODE	1SS332
D401	8-719-976-31	DIODE	1SS332
D402	8-719-977-32	DIODE	DTZ11B
D403	8-719-976-31	DIODE	1SS332
D404	8-719-400-18	DIODE	MA152WK
D451	8-719-976-95	DIODE	DTZ4.7B
D452	8-719-976-31	DIODE	1SS332
D454	8-719-104-34	DIODE	1S2836
D801	8-719-976-31	DIODE	1SS332 (XR-7172)
D901	8-719-977-32	DIODE	DTZ11B
D902	8-719-977-24	DIODE	DTZ9.1B
D903	8-719-977-24	DIODE	DTZ9.1B
D904	8-719-400-18	DIODE	MA152WK
D905	8-719-970-02	DIODE	1SR139-400
D906	8-719-977-07	DIODE	DTZ6.2B
D907	8-719-976-31	DIODE	1SS332
D908	8-719-104-34	DIODE	1S2836
D909	8-719-977-07	DIODE	DTZ6.2B
D910	8-719-977-24	DIODE	DTZ9.1B
D911	8-719-970-02	DIODE	1SR139-400
D912	8-719-977-07	DIODE	DTZ6.2B
D913	8-719-977-07	DIODE	DTZ6.2B
D914	8-719-977-07	DIODE	DTZ6.2B
D915	8-719-977-07	DIODE	DTZ6.2B
D916	8-719-977-07	DIODE	DTZ6.2B
D917	8-719-977-07	DIODE	DTZ6.2B
D918	8-719-977-07	DIODE	DTZ6.2B
D919	8-719-977-16	DIODE	DTZ7.5B

< TUNER >

FE1	1-465-405-11	TUNER UNIT (FM/AM)	(XR-7170/7172)
FE1	1-465-537-11	TUNER UNIT (FM/MW/LW)	(XR-7171)

< IC >

IC1	1-808-516-11	IC	NMX3S920
IC2	8-759-821-43	IC	LC7218M

MAIN

Ref.No.	Part No.	Description	Remark
IC51	8-759-823-70	IC LA1060	
IC101	8-759-103-25	IC uPD4053BG	
IC102	8-759-631-00	IC M5280FP	
IC103	8-759-988-33	IC BA3430FS	
IC104	8-759-932-64	IC BU4052BF	
IC105	8-749-922-16	IC MV1108	
IC106	8-759-995-12	IC EV1200	
IC107	8-759-988-36	IC BA14741F	
IC301	8-759-150-68	IC UPD75516GF-133-3B9	
IC302	8-759-932-86	IC BU4081BF	
IC401	8-759-631-01	IC M54644BL	
IC801	8-759-998-25	IC TDA1579T (XR-7172)	
IC802	8-759-909-71	IC BA4558F (XR-7172)	
		< JUMPER RESISTOR >	
JR121	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR122	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR221	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR222	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR309	1-216-295-00	METAL CHIP 0 5% 1/10W (XR-7170)	
JR310	1-216-295-00	METAL CHIP 0 5% 1/10W (XR-7171)	
JR312	1-216-295-00	METAL CHIP 0 5% 1/10W (XR-7171/7172)	
JR903	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR907	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR908	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR909	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR910	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR931	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR932	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR933	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR934	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR935	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR951	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR954	1-216-295-00	METAL CHIP 0 5% 1/10W	
		< COIL >	
L1	1-410-970-11	INDUCTOR 6.8uH	
L2	1-410-973-11	INDUCTOR 22uH	
L3	1-410-973-11	INDUCTOR 22uH	
L51	1-410-977-11	INDUCTOR 100uH	
L301	1-410-973-11	INDUCTOR 22uH	
L302	1-410-973-11	INDUCTOR 22uH	
L801	1-424-036-11	COIL (FILTER) (XR-7172)	
		< TRANSISTOR >	
Q1	8-729-100-66	TRANSISTOR 2SC1623	
Q2	8-729-901-01	TRANSISTOR DTC144EK (XR-7171)	
Q3	8-729-100-66	TRANSISTOR 2SC1623	
Q4	8-729-100-66	TRANSISTOR 2SC1623	
Q5	8-729-100-66	TRANSISTOR 2SC1623	
Q6	8-729-100-66	TRANSISTOR 2SC1623	
Q7	8-729-901-04	TRANSISTOR DTA114EK	
Q8	8-729-106-68	TRANSISTOR 2SD1615A-GP	
Q9	8-729-106-60	TRANSISTOR 2SB1115A	
Q10	8-729-106-60	TRANSISTOR 2SB1115A	
Q11	8-729-901-01	TRANSISTOR DTC144EK	
Q12	8-729-901-04	TRANSISTOR DTA114EK	
Q13	8-729-921-48	TRANSISTOR 2SD1760F5-Q	
Q14	8-729-920-21	TRANSISTOR DTC314H04	
Q15	8-729-901-01	TRANSISTOR DTC144EK	
Q16	8-729-901-04	TRANSISTOR DTA114EK	
Q51	8-729-100-66	TRANSISTOR 2SC1623	
Q54	8-729-100-66	TRANSISTOR 2SC1623	
Q101	8-729-920-21	TRANSISTOR DTC314H04	
Q102	8-729-920-21	TRANSISTOR DTC314H04	
Q201	8-729-920-21	TRANSISTOR DTC314H04	
Q202	8-729-920-21	TRANSISTOR DTC314H04	
Q301	8-729-901-06	TRANSISTOR DTA144EK	
Q302	8-729-901-01	TRANSISTOR DTC144EK	
Q303	8-729-901-01	TRANSISTOR DTC144EK	
Q304	8-729-901-01	TRANSISTOR DTC144EK	
Q305	8-729-900-53	TRANSISTOR DTC114EK	
Q306	8-729-901-06	TRANSISTOR DTA144EK	
Q401	8-729-106-60	TRANSISTOR 2SB1115A	
Q402	8-729-900-53	TRANSISTOR DTC114EK	
Q403	8-729-900-53	TRANSISTOR DTC114EK	
Q404	8-729-106-68	TRANSISTOR 2SD1615A-GP	
Q405	8-729-901-04	TRANSISTOR DTA114EK	
Q406	8-729-900-53	TRANSISTOR DTC114EK	
Q451	8-729-920-21	TRANSISTOR DTC314H04	
Q452	8-729-920-21	TRANSISTOR DTC314H04	
Q901	8-729-921-48	TRANSISTOR 2SD1760F5-Q	
Q902	8-729-921-48	TRANSISTOR 2SD1760F5-Q	
Q903	8-729-106-68	TRANSISTOR 2SD1615A-GP	
Q906	8-729-901-04	TRANSISTOR DTA114EK	
Q907	8-729-901-01	TRANSISTOR DTC144EK	
Q908	8-729-901-01	TRANSISTOR DTC144EK	
Q909	8-729-901-01	TRANSISTOR DTC144EK	
Q910	8-729-901-04	TRANSISTOR DTA114EK	
Q911	8-729-901-01	TRANSISTOR DTC144EK	
Q912	8-729-100-66	TRANSISTOR 2SC1623	
Q913	8-729-100-66	TRANSISTOR 2SC1623	
Q914	8-729-901-01	TRANSISTOR DTC144EK	
Q915	8-729-100-66	TRANSISTOR 2SC1623	
Q916	8-729-921-48	TRANSISTOR 2SD1760F5-Q	
Q917	8-729-216-22	TRANSISTOR 2SA1162	
Q918	8-729-106-60	TRANSISTOR 2SB1115A	

Ref. No.	Part No.	Description			Remark
Q919	8-729-901-01	TRANSISTOR	DTC144EK		
Q920	8-729-901-04	TRANSISTOR	DTA114EK		
Q921	8-729-901-04	TRANSISTOR	DTA114EK		
Q922	8-729-901-01	TRANSISTOR	DTC144EK		
Q923	8-729-216-22	TRANSISTOR	2SA1162		
Q924	8-729-216-22	TRANSISTOR	2SA1162		
Q925	8-729-106-60	TRANSISTOR	2SB1115A		
Q926	8-729-900-53	TRANSISTOR	DTC114EK		
		< RESISTOR >			
R1	1-216-083-00	METAL CHIP	27K	5% 1/10W	
R2	1-216-049-00	METAL CHIP	1K	5% 1/10W	
R3	1-216-053-00	METAL CHIP	1.5K	5% 1/10W	
R4	1-216-045-00	METAL CHIP	680	5% 1/10W	
R5	1-216-081-00	METAL CHIP	22K	5% 1/10W	
R6	1-216-065-00	METAL CHIP	4.7K	5% 1/10W	
R7	1-216-001-00	METAL CHIP	10	5% 1/10W	
R8	1-216-061-00	METAL CHIP	3.3K	5% 1/10W	
R9	1-216-065-00	METAL CHIP	4.7K	5% 1/10W	
R10	1-216-067-00	METAL CHIP	5.6K	5% 1/10W	
R11	1-216-089-00	METAL CHIP	47K	5% 1/10W	
R12	1-216-061-00	METAL CHIP	3.3K	5% 1/10W	
R13	1-216-061-00	METAL CHIP	3.3K	5% 1/10W	
R14	1-216-069-00	METAL GLAZE	6.8K	5% 1/10W (XR-7172)	
R14	1-216-079-00	METAL CHIP	18K	5% 1/10W (XR-7170/7171)	
R15	1-216-069-00	METAL GLAZE	6.8K	5% 1/10W (XR-7172)	
R15	1-216-079-00	METAL CHIP	18K	5% 1/10W (XR-7170/7171)	
R16	1-216-091-00	METAL GLAZE	56K	5% 1/10W (XR-7172)	
R16	1-216-093-00	METAL CHIP	68K	5% 1/10W (XR-7170/7171)	
R17	1-216-091-00	METAL GLAZE	56K	5% 1/10W (XR-7172)	
R17	1-216-093-00	METAL CHIP	68K	5% 1/10W (XR-7170/7171)	
R20	1-216-065-00	METAL CHIP	4.7K	5% 1/10W	
R21	1-216-061-00	METAL CHIP	3.3K	5% 1/10W	
R22	1-216-063-00	METAL CHIP	3.9K	5% 1/10W	
R23	1-216-049-00	METAL CHIP	1K	5% 1/10W	
R24	1-216-073-00	METAL CHIP	10K	5% 1/10W	
R25	1-216-061-00	METAL CHIP	3.3K	5% 1/10W	
R26	1-216-049-00	METAL CHIP	1K	5% 1/10W	
R27	1-216-053-00	METAL CHIP	1.5K	5% 1/10W	
R28	1-216-045-00	METAL CHIP	680	5% 1/10W	
R29	1-216-073-00	METAL CHIP	10K	5% 1/10W (XR-7171)	
R30	1-216-065-00	METAL CHIP	4.7K	5% 1/10W	
R31	1-216-065-00	METAL CHIP	4.7K	5% 1/10W	
R32	1-216-059-00	METAL CHIP	2.7K	5% 1/10W	
R33	1-216-059-00	METAL CHIP	2.7K	5% 1/10W	
R34	1-216-073-00	METAL CHIP	10K	5% 1/10W	
R35	1-216-049-00	METAL CHIP	1K	5% 1/10W	
R36	1-216-057-00	METAL CHIP	2.2K	5% 1/10W	

Ref. No.	Part No.	Description			Remark
R37	1-216-065-00	METAL CHIP	4.7K	5% 1/10W	
R38	1-216-049-00	METAL CHIP	1K	5% 1/10W	
R40	1-216-049-00	METAL CHIP	1K	5% 1/10W	
R41	1-216-097-00	METAL CHIP	100K	5% 1/10W	
R51	1-216-065-00	METAL CHIP	4.7K	5% 1/10W	
R52	1-216-065-00	METAL CHIP	4.7K	5% 1/10W	
R53	1-216-748-11	METAL CHIP	39K	5% 1/10W	
R54	1-216-049-00	METAL CHIP	1K	5% 1/10W	
R55	1-216-089-00	METAL CHIP	47K	5% 1/10W	
R56	1-216-113-00	METAL CHIP	470K	5% 1/10W	
R57	1-216-089-00	METAL CHIP	47K	5% 1/10W	
R59	1-216-067-00	METAL CHIP	5.6K	5% 1/10W	
R62	1-216-089-00	METAL CHIP	47K	5% 1/10W	
R63	1-216-097-00	METAL CHIP	100K	5% 1/10W	
R64	1-216-121-00	METAL CHIP	1M	5% 1/10W	
R65	1-216-089-00	METAL CHIP	47K	5% 1/10W	
R66	1-216-057-00	METAL CHIP	2.2K	5% 1/10W	
R67	1-216-073-00	METAL CHIP	10K	5% 1/10W	
R68	1-216-065-00	METAL CHIP	4.7K	5% 1/10W	
R69	1-216-095-00	METAL CHIP	82K	5% 1/10W	
R70	1-216-097-00	METAL CHIP	100K	5% 1/10W	
R71	1-216-057-00	METAL CHIP	2.2K	5% 1/10W	
R75	1-216-097-00	METAL CHIP	100K	5% 1/10W	
R76	1-216-097-00	METAL CHIP	100K	5% 1/10W	
R101	1-216-081-00	METAL CHIP	22K	5% 1/10W	
R102	1-216-081-00	METAL CHIP	22K	5% 1/10W	
R103	1-216-077-00	METAL CHIP	15K	5% 1/10W	
R104	1-216-053-00	METAL CHIP	1.5K	5% 1/10W	
R105	1-216-033-00	METAL CHIP	220	5% 1/10W	
R106	1-216-109-00	METAL CHIP	330K	5% 1/10W	
R107	1-216-075-00	METAL CHIP	12K	5% 1/10W	
R108	1-216-079-00	METAL CHIP	18K	5% 1/10W	
R109	1-216-073-00	METAL CHIP	10K	5% 1/10W	
R112	1-216-049-00	METAL CHIP	1K	5% 1/10W	
R113	1-216-077-00	METAL CHIP	15K	5% 1/10W	
R114	1-216-077-00	METAL CHIP	15K	5% 1/10W	
R115	1-216-081-00	METAL CHIP	22K	5% 1/10W	
R116	1-216-081-00	METAL CHIP	22K	5% 1/10W	
R117	1-216-073-00	METAL CHIP	10K	5% 1/10W	
R118	1-216-073-00	METAL CHIP	10K	5% 1/10W	
R119	1-216-049-00	METAL CHIP	1K	5% 1/10W	
R120	1-216-049-00	METAL CHIP	1K	5% 1/10W	
R201	1-216-081-00	METAL CHIP	22K	5% 1/10W	
R202	1-216-081-00	METAL CHIP	22K	5% 1/10W	
R203	1-216-077-00	METAL CHIP	15K	5% 1/10W	
R204	1-216-053-00	METAL CHIP	1.5K	5% 1/10W	
R205	1-216-033-00	METAL CHIP	220	5% 1/10W	
R206	1-216-109-00	METAL CHIP	330K	5% 1/10W	
R207	1-216-075-00	METAL CHIP	12K	5% 1/10W	

MAIN

Ref. No.	Part No.	Description			Remark
R208	1-216-079-00	METAL CHIP	18K	5%	1/10W
R209	1-216-073-00	METAL CHIP	10K	5%	1/10W
R212	1-216-049-00	METAL CHIP	1K	5%	1/10W
R213	1-216-077-00	METAL CHIP	15K	5%	1/10W
R214	1-216-077-00	METAL CHIP	15K	5%	1/10W
R215	1-216-081-00	METAL CHIP	22K	5%	1/10W
R216	1-216-081-00	METAL CHIP	22K	5%	1/10W
R217	1-216-073-00	METAL CHIP	10K	5%	1/10W
R218	1-216-073-00	METAL CHIP	10K	5%	1/10W
R219	1-216-049-00	METAL CHIP	1K	5%	1/10W
R220	1-216-049-00	METAL CHIP	1K	5%	1/10W
R301	1-216-097-00	METAL CHIP	100K	5%	1/10W
R302	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R305	1-216-097-00	METAL CHIP	100K	5%	1/10W
R306	1-216-085-00	METAL CHIP	33K	5%	1/10W
R307	1-216-105-00	METAL CHIP	220K	5%	1/10W
R308	1-216-073-00	METAL CHIP	10K	5%	1/10W
R311	1-216-105-00	METAL CHIP	220K	5%	1/10W
R313	1-216-105-00	METAL CHIP	220K	5%	1/10W
R314	1-216-105-00	METAL CHIP	220K	5%	1/10W
R315	1-216-105-00	METAL CHIP	220K	5%	1/10W
R316	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R317	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R318	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R319	1-216-105-00	METAL CHIP	220K	5%	1/10W
R320	1-216-105-00	METAL CHIP	220K	5%	1/10W
R321	1-216-105-00	METAL CHIP	220K	5%	1/10W
R324	1-216-105-00	METAL CHIP	220K	5%	1/10W
R325	1-216-105-00	METAL CHIP	220K	5%	1/10W
R326	1-216-105-00	METAL CHIP	220K	5%	1/10W
R327	1-216-105-00	METAL CHIP	220K	5%	1/10W
R328	1-216-049-00	METAL CHIP	1K	5%	1/10W
R329	1-216-049-00	METAL CHIP	1K	5%	1/10W
R330	1-216-049-00	METAL CHIP	1K	5%	1/10W
R331	1-216-049-00	METAL CHIP	1K	5%	1/10W
R332	1-216-073-00	METAL CHIP	10K	5%	1/10W
R333	1-216-073-00	METAL CHIP	10K	5%	1/10W
R334	1-216-075-00	METAL CHIP	12K	5%	1/10W
R335	1-216-073-00	METAL CHIP	10K	5%	1/10W
R336	1-216-073-00	METAL CHIP	10K	5%	1/10W
R337	1-216-089-00	METAL CHIP	47K	5%	1/10W
R338	1-216-097-00	METAL CHIP	100K	5%	1/10W
R339	1-216-097-00	METAL CHIP	100K	5%	1/10W
R340	1-216-105-00	METAL CHIP	220K	5%	1/10W
R341	1-216-105-00	METAL CHIP	220K	5%	1/10W
R342	1-216-049-00	METAL CHIP	1K	5%	1/10W
R343	1-216-081-00	METAL CHIP	22K	5%	1/10W
R344	1-216-748-11	METAL CHIP	39K	5%	1/10W
R345	1-216-748-11	METAL CHIP	39K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R346	1-216-089-00	METAL CHIP	47K	5%	1/10W
R347-1	1-216-073-00	METAL CHIP	10K	5%	1/10W
R347-2	1-216-089-00	METAL CHIP	47K	5%	1/10W
R401	1-216-194-00	METAL CHIP	680	5%	1/8W
R402	1-216-194-00	METAL CHIP	680	5%	1/8W
R403	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R404	1-216-017-00	METAL CHIP	47	5%	1/10W
R405	1-216-194-00	METAL CHIP	680	5%	1/8W
R406	1-216-194-00	METAL CHIP	680	5%	1/8W
R407	1-216-194-00	METAL CHIP	680	5%	1/8W
R408	1-216-194-00	METAL CHIP	680	5%	1/8W
R409	1-216-041-00	METAL CHIP	470	5%	1/10W
R410	1-216-146-00	METAL GLAZE	6.8	5%	1/8W
R411	1-216-146-00	METAL GLAZE	6.8	5%	1/8W
R412	1-216-146-00	METAL GLAZE	6.8	5%	1/8W
R413	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R414	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R451	1-216-041-00	METAL CHIP	470	5%	1/10W
R452	1-216-041-00	METAL CHIP	470	5%	1/10W
R453	1-216-073-00	METAL CHIP	10K	5%	1/10W
R454	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R455	1-216-001-00	METAL CHIP	10	5%	1/10W
R456	1-216-025-00	METAL CHIP	100	5%	1/10W
R457	1-216-021-00	METAL CHIP	68	5%	1/10W
R458	1-216-105-00	METAL CHIP	220K	5%	1/10W
R459	1-216-073-00	METAL CHIP	10K	5%	1/10W
R460	1-216-097-00	METAL CHIP	100K	5%	1/10W
R461	1-216-001-00	METAL CHIP	10	5%	1/10W
R462	1-216-085-00	METAL CHIP	33K	5%	1/10W
R463	1-216-109-00	METAL CHIP	330K	5%	1/10W
R464	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R465	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R466	1-216-097-00	METAL CHIP	100K	5%	1/10W
R467	1-216-001-00	METAL CHIP	10	5%	1/10W
R468	1-216-025-00	METAL CHIP	100	5%	1/10W
R469	1-216-001-00	METAL CHIP	10	5%	1/10W
R470	1-216-001-00	METAL CHIP	10	5%	1/10W
R471	1-216-097-00	METAL CHIP	100K	5%	1/10W
R472	1-216-081-00	METAL CHIP	22K	5%	1/10W
R473	1-216-001-00	METAL CHIP	10	5%	1/10W
R801	1-216-089-00	METAL GLAZE	47K	5%	1/10W (XR-7172)
R802	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W (XR-7172)
R803	1-216-097-00	METAL GLAZE	100K	5%	1/10W (XR-7172)
R804	1-216-041-00	METAL GLAZE	470	5%	1/10W (XR-7172)
R805	1-216-117-00	METAL GLAZE	680K	5%	1/10W (XR-7172)
R806	1-216-105-00	METAL GLAZE	220K	5%	1/10W (XR-7172)
R807	1-216-089-00	METAL GLAZE	47K	5%	1/10W (XR-7172)
R808	1-216-116-00	METAL GLAZE	620K	5%	1/10W (XR-7172)
R809	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W (XR-7172)

MAIN **POWER**

Ref.No.	Part No.	Description				Remark
R810	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	(XR-7172)
R811	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	(XR-7172)
R812	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	(XR-7172)
R813	1-216-041-00	METAL GLAZE	470	5%	1/10W	(XR-7172)
R814	1-216-089-00	METAL GLAZE	47K	5%	1/10W	(XR-7172)
R815	1-216-075-00	METAL GLAZE	12K	5%	1/10W	(XR-7172)
R816	1-216-073-00	METAL GLAZE	10K	5%	1/10W	(XR-7172)
R817	1-216-075-00	METAL GLAZE	12K	5%	1/10W	(XR-7172)
R818	1-216-106-00	METAL GLAZE	240K	5%	1/10W	(XR-7172)
R819	1-216-085-00	METAL GLAZE	33K	5%	1/10W	(XR-7172)
R820	1-216-095-00	METAL GLAZE	82K	5%	1/10W	(XR-7172)
R821	1-216-093-00	METAL GLAZE	68K	5%	1/10W	(XR-7172)
R822	1-216-089-00	METAL GLAZE	47K	5%	1/10W	(XR-7172)
R901	1-216-035-00	METAL CHIP	270	5%	1/10W	
R902	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R903	1-216-035-00	METAL CHIP	270	5%	1/10W	
R904	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R905	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R907	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W	
R908	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W	
R909	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R911	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R912	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R913	1-216-105-00	METAL CHIP	220K	5%	1/10W	
R914	1-216-091-00	METAL CHIP	56K	5%	1/10W	
R915	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R916	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R917	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R918	1-216-033-00	METAL CHIP	220	5%	1/10W	
R919	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R920	1-216-041-00	METAL CHIP	470	5%	1/10W	
R921	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R922	1-216-105-00	METAL CHIP	220K	5%	1/10W	
R923	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R924	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R925	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R926	1-216-134-00	METAL CHIP	2.2	5%	1/8W	
R927	1-216-134-00	METAL CHIP	2.2	5%	1/8W	
R928	1-216-091-00	METAL CHIP	56K	5%	1/10W	
R929	1-216-091-00	METAL CHIP	56K	5%	1/10W	
R930	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R931	1-216-059-00	METAL CHIP	2.7K	5%	1/10W	
R932	1-216-059-00	METAL CHIP	2.7K	5%	1/10W	
R933	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R934	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R935	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R936	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R937	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R938	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R939	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R940	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R941	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R942	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R944	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R945	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R946	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R947	1-216-071-00	METAL CHIP	8.2K	5%	1/10W	
R948	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R950	1-216-134-00	METAL CHIP	2.2	5%	1/8W	
R951	1-216-134-00	METAL CHIP	2.2	5%	1/8W	

< VARIABLE RESISTOR >

RV1	1-230-523-11	RES, ADJ, METAL 10K
RV2	1-230-527-11	RES, ADJ, METAL 100K
RV101	1-238-167-11	RES, ADJ, CARBON 22K
RV102	1-238-167-11	RES, ADJ, CARBON 22K
RV201	1-238-167-11	RES, ADJ, CARBON 22K
RV202	1-238-167-11	RES, ADJ, CARBON 22K
RV801	1-230-530-11	RES, ADJ, METAL 100 (XR-7172)

< SWITCH >

S1	1-553-510-00	SWITCH, SLIDE (DIVERSITY)
S301	1-553-510-00	SWITCH, SLIDE (9kHz/10kHz) (XR-7170)
S302	1-553-510-00	SWITCH, SLIDE (AMBER/GREEN)

< CRYSTAL >

X1	1-567-250-11	OSCILLATOR, CERAMIC
X2	1-567-848-11	VIBRATOR, CRYSTAL
X301	1-567-821-11	VIBRATOR, CRYSTAL

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* 1-638-098-11 POWER BOARD

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< CAPACITOR >

C501	1-126-161-11	ELECT	2.2uF	20%	35V
C502	1-128-054-11	ELECT	22uF	20%	10V
C503	1-136-166-00	FILM	0.12uF	5%	50V
C504	1-136-166-00	FILM	0.12uF	5%	50V
C505	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C551	1-126-161-11	ELECT	2.2uF	20%	35V
C552	1-128-054-11	ELECT	22uF	20%	10V
C553	1-136-166-00	FILM	0.12uF	5%	50V
C554	1-136-166-00	FILM	0.12uF	5%	50V
C555	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C591	1-128-268-11	ELECT	3300uF	20%	16V
C592	1-136-165-00	FILM	0.1uF	5%	50V

POWER REEL PM SWITCH

Ref.No.	Part No.	Description			Remark
C593	1-163-109-00	CERAMIC CHIP	47PF	5%	50V
C595	1-126-923-11	ELECT	220uF	20%	10V
C596	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C601	1-126-161-11	ELECT	2.2uF	20%	35V
C602	1-128-054-11	ELECT	22uF	20%	10V
C603	1-136-166-00	FILM	0.12uF	5%	50V
C604	1-136-166-00	FILM	0.12uF	5%	50V
C605	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C651	1-126-161-11	ELECT	2.2uF	20%	35V
C652	1-128-054-11	ELECT	22uF	20%	10V
C653	1-136-166-00	FILM	0.12uF	5%	50V
C654	1-136-166-00	FILM	0.12uF	5%	50V
C655	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C695	1-126-923-11	ELECT	220uF	20%	10V
C696	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
		< CONNECTOR >			
CNP921 *	1-564-511-11	PLUG, CONNECTOR 8P			
CNP922 *	1-566-693-11	PIN, CONNECTOR 2P			
		< DIODE >			
D501	8-719-981-50	DIODE	RB100A		
D502	8-719-981-50	DIODE	RB100A		
D551	8-719-981-50	DIODE	RB100A		
D552	8-719-981-50	DIODE	RB100A		
D591	8-719-945-59	DIODE	DSA3A4		
D601	8-719-981-50	DIODE	RB100A		
D602	8-719-981-50	DIODE	RB100A		
D651	8-719-981-50	DIODE	RB100A		
D652	8-719-981-50	DIODE	RB100A		
		< IC >			
IC501	8-759-243-27	IC	TA8215H		
IC601	8-759-243-27	IC	TA8215H		
		< RESISTOR >			
R501	1-216-083-00	METAL CHIP	27K	5%	1/10W
R502	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R503	1-216-129-00	METAL CHIP	2.2M	5%	1/10W
R504	1-216-041-00	METAL CHIP	470	5%	1/10W
R507	1-216-298-00	METAL CHIP	2.2	5%	1/10W
R508	1-216-298-00	METAL CHIP	2.2	5%	1/10W
R551	1-216-083-00	METAL CHIP	27K	5%	1/10W
R552	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R553	1-216-129-00	METAL CHIP	2.2M	5%	1/10W
R554	1-216-041-00	METAL CHIP	470	5%	1/10W
R557	1-216-298-00	METAL CHIP	2.2	5%	1/10W
R558	1-216-298-00	METAL CHIP	2.2	5%	1/10W

Ref.No.	Part No.	Description			Remark
R591	1-216-073-00	METAL CHIP	10K	5%	1/10W
R592	1-216-097-00	METAL CHIP	100K	5%	1/10W
R601	1-216-083-00	METAL CHIP	27K	5%	1/10W
R602	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R603	1-216-129-00	METAL CHIP	2.2M	5%	1/10W
R604	1-216-041-00	METAL CHIP	470	5%	1/10W
R607	1-216-298-00	METAL CHIP	2.2	5%	1/10W
R608	1-216-298-00	METAL CHIP	2.2	5%	1/10W
R651	1-216-083-00	METAL CHIP	27K	5%	1/10W
R652	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R653	1-216-129-00	METAL CHIP	2.2M	5%	1/10W
R654	1-216-041-00	METAL CHIP	470	5%	1/10W
R657	1-216-298-00	METAL CHIP	2.2	5%	1/10W
R658	1-216-298-00	METAL CHIP	2.2	5%	1/10W
R692	1-216-097-00	METAL CHIP	100K	5%	1/10W

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* 1-624-412-14 REEL BOARD

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PM BOARD

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< CONNECTOR >

CNP15 * 1-566-002-11 PIN, CONNECTOR (PC BOARD) 5P

< PHOTO DIODE >

PH11 8-719-939-11 PHOTO DIODE GP2S09-B
PH12 8-719-939-11 PHOTO DIODE GP2S09-B

< SOLENOID PLUNGER >

PM901 1-454-461-12 SOLENOID PLUNGER

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* 1-638-592-11 SWITCH BOARD

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< CONNECTOR >

CNJ11 * 1-566-007-11 PIN, CONNECTOR (PC BOARD) 10P
CNJ14 * 1-565-038-11 CONNECTOR, F.P.C 5P
CNJ15 * 1-565-038-11 CONNECTOR, F.P.C 5P
CNP12 * 1-566-003-11 PIN, CONNECTOR (PC BOARD) 6P
CNP13 * 1-506-998-11 PIN, CONNECTOR (PC BOARD) 2P

< SWITCH >

S11 1-570-953-11 SWITCH, PUSH (1 KEY) (TAPE IN)
S12 1-570-953-11 SWITCH, PUSH (1 KEY) (N/R)

Ref. No.	Part No.	Description	Remark
		MISCELLANEOUS	
		**********	
31	1-590-471-11	CORD (WITH CONNECTOR)	
62	1-590-470-11	CORD (WITH CONNECTOR)	
F901	1-532-508-11	FUSE 8A	
F902	1-532-409-11	FUSE 0.315A	
HP901	1-543-726-11	HEAD, MAGNETIC (PLAYBACK)	
LCD701	1-808-773-11	DISPLAY PANEL, LIQUID CRYSTAL	
M901	X-3344-136-1	MOTOR SUB ASSY, CAPSTAN	
M902	A-3239-956-B	MOTOR SUB ASSY, L	
S901	1-570-771-11	SWITCH	
S902	1-572-397-11	SWITCH, ROTARY SLIDE	
**********			
		ACCESSORY & PACKING MATERIAL	
		**********	
	3-336-617-01	BAG, PROTECTION	
*	3-368-332-01	INDIVIDUAL CARTON (XR-7170)	
*	3-368-334-01	CUSHION (UPPER) (L&R)	
*	3-368-335-01	CUSHION (LOWER)	
*	3-368-336-01	INDIVIDUAL CARTON (XR-7171)	
	3-368-337-01	MASTER CARTON, 4 SETS	
*	3-368-338-01	INDIVIDUAL CARTON (XR-7172)	
	3-753-028-11	MANUAL, INSTRUCTION (XR-7170) (ENGLISH/FRENCH/SPANISH/CHINESE)	
	3-753-028-41	MANUAL, INSTRUCTION (XR-7170) (DUTCH/SWEDISH/ITALIAN/PORTUGUESE)	
	3-753-028-51	MANUAL, INSTRUCTION (XR-7172) (ENGLISH/FRENCH/GERMAN/ITALIAN)	
	3-753-028-61	MANUAL, INSTRUCTION (ENGLISH/FRENCH/DUTCH) (XR-7171)	
	3-753-029-11	MANUAL, INSTALLATION/CONNECTION (ENGLISH/FRENCH/SPANISH/CHINESE) (XR-7170)	
	3-753-029-41	MANUAL, INSTALLATION/CONNECTION (DUTCH/SWEDISH/ITALIAN/PORTUGUESE) (XR-7170)	
	3-753-029-51	MANUAL, INSTALLATION/CONNECTION (ENGLISH/FRENCH/GERMAN/ITALIAN) (XR-7172)	
	3-753-029-61	MANUAL, INSTALLATION/CONNECTION (ENGLISH/FRENCH/DUTCH) (XR-7171)	
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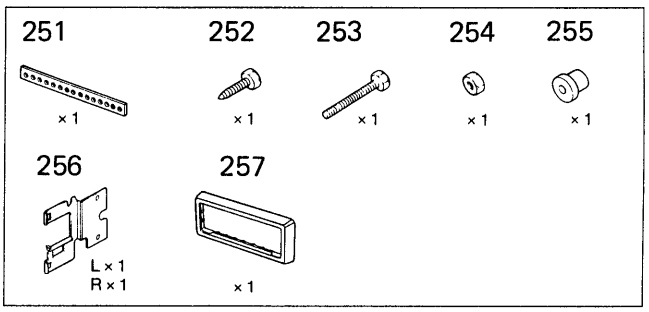
Ref. No.	Part No.	Description	Remark
		HARDWARE LIST	
# 1	7-621-283-00	SCREW +P 2X5	
# 2	7-627-553-38	SCREW, PRECISION +P 2X3	
# 3	7-685-103-19	SCREW +P 2X5 TYPE2 NON-SLIT	
# 4	7-685-132-19	SCREW +P 2.6X5 TYPE2 SLIT	
# 5	7-682-547-04	SCREW +PTT 3X6 (S)	
# 6	7-621-773-86	SCREW +PTT 2.6X4 (S)	
# 7	7-621-770-87	SCREW +PTT 2.6X5 (S)	
# 8	7-621-770-67	SCREW +PTT 2.6X6 (S)	
# 9	7-621-773-87	SCREW +PTT 2.6X10 (S)	
#10	7-623-507-01	LUG, 2.6	
#11	7-682-652-09	SCREW +PSW 3X16	
#12	7-624-104-04	STOP RING 2.0 TYPE-E	
#13	7-627-554-07	SCREW, PRECISION +P 2X2.2	
#14	7-627-850-18	SCREW, PRECISION +P 1.4X2.5	
#15	7-627-850-67	SCREW, PRECISION +P 1.4X4	
#16	7-628-253-05	SCREW +PS 2X4	
#17	7-621-259-25	SCREW +P 2.6X4	
#18	7-621-255-65	SCREW +P 2X10	
#19	7-621-255-25	SCREW +P 2X4	
**********			

• MOUNTING HARDWARE



251	3-310-655-01	SUPPORT (ND), FITTING
252	3-302-126-01	SCREW, TAPPING (DIA. 5X20)
253	7-682-583-04	SCREW +P 5X40
254	7-684-025-04	N 5, TYPE 2
255	3-349-410-01	BUSHING
256 *	3-349-456-01	BRACKET (FIX, LEFT)
*	3-349-457-01	BRACKET (FIX, RIGHT)
257 *	3-349-458-01	FRAME, ORNAMENTAL

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SONY

SERVICE MANUAL

AEP Model
XR-7170/7171
E Model
XR-7170
German Model
XR-7172

CORRECTION-1

Correct your service manual as shown below.

____ (Under line) : indicates corrected portion.

Page	INCORRECT			CORRECT		
	Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
37	M902	A-3239-956-B	MOTOR SUB ASSY, L	M902	X-3362-826-1	MOTOR GEAR ASSY

(SPM-96041)

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